

A smaller version of the Hettich logo is positioned on the side of the white laboratory equipment in the foreground. It features the word "Hettich" in a blue, stylized font with a blue swoosh underline.

GENERAL CATALOG

2019 | 2020

CENTRIFUGES
INCUBATORS



Hettich



Dear Partner,

Since our founding in 1904, we have been driven by the motivation to create quality products that aid in the work performed in laboratories every day. With this principle, we have grown to become one of the leading manufacturers of laboratory centrifuges and a vital part of laboratories across the world. It is important to us – as much today as ever before – to offer you products that are safe, reliable and innovative.

With this new 2019/2020 edition of our catalog, we are pleased to offer our updated product portfolio. One of the new highlights is our next generation of HettCube incubators, which are truly deserving of the title 'new'. In addition to the advanced touch screen control panel, it features innovative accessories, such as our Loewenstein shelving system for increased throughput and efficiency.

You will find these and other new products in the following pages. As always, our products are backed by our 24 month Global Warranty and 10 year spare parts support guarantee. We thank you for your interest in Hettich and hope to be a trusted partner in your laboratory.

Sincerely,

Klaus-Günter Eberle
CEO

OVER
110
YEARS
TRADITION
& QUALITY

Good ideas for even more efficiency: new products from Hettich in 2019.

THE NEXT GENERATION OF HETTCUBES

Intuitive operation: The new touchscreen is easy to handle and offers an excellent overview, including all events in and around the your HettCube.

Innovations in the laboratory: The new holiday function offers you even more flexibility in work-free days.

Space miracle: 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.

Maximum throughput: With the new racks for Petri dishes and for the Loewenstein application, large sample amounts can be processed with even more convenience and efficiency.

More for your money: The latest HettCube offers extensive equipment with up to 3 standard racks and an additional HTS telescopic rail (depending on the model of the HettCube). A factory certificate (HettCert) with a 9 – point temperature measurement is included with each HettCube.

Further information can be found on page 160.





EXTENSION OF HETTCUBE ACCESSORIES

With the new Rack for the HettCube series, Hettich offers more capacity and therefore more throughput.

Made of stainless steel, it has a maximum capacity of 81 tubes per rack. With an angle of inclination of 5° it is ideal for the Loewenstein application.

— page 164

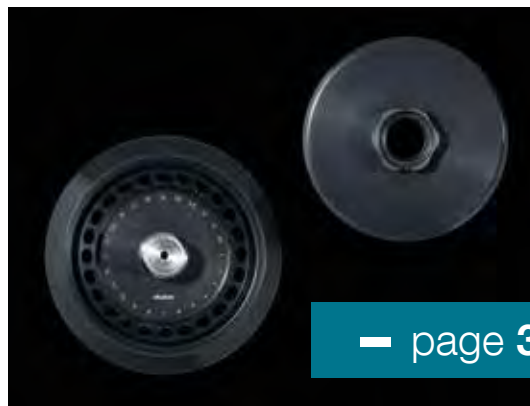
NEW ROTORS

MIKRO 200 | 200 R

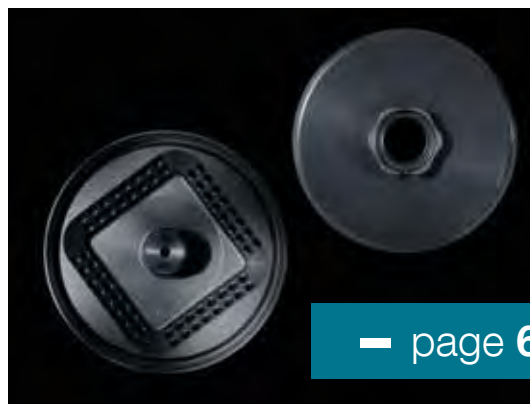
- New rotors and lids with screw cap: bioseal, autoclavable and phenolresistant
- Optional: transparent lid with only one turn bioseal closed
- Improved appearance and durability by a black special coating

UNIVERSAL 320 | 320 R

- New rotor variants for even greater possibilities
- Higher RCF values for even faster separation
- Improved appearance and durability by a black special coating



— page 36

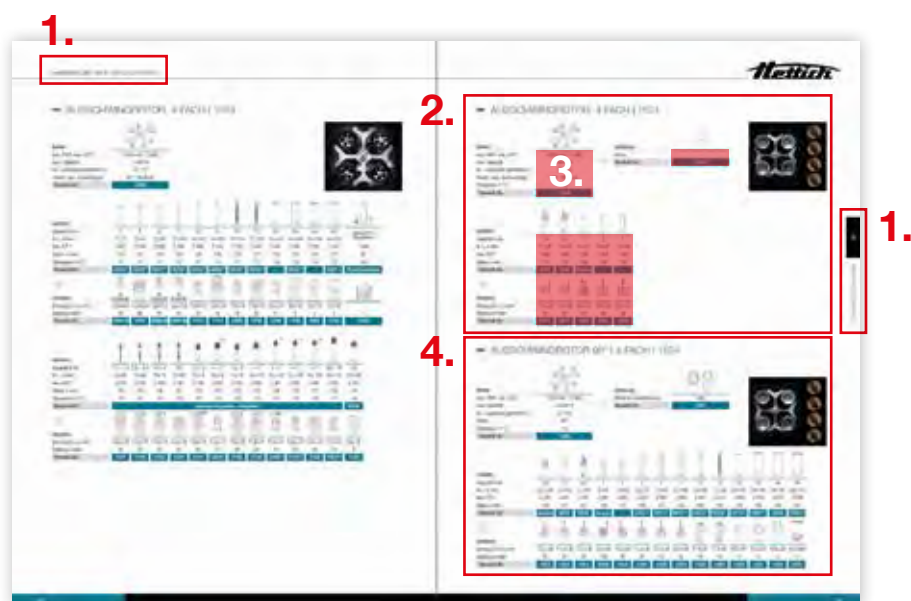


— page 60

Catalog Explanation

Layout

1. Navigation:
Header + sheet index
2. Rotor
+ Bucket
+ Lid
+ Adapter
+ Vessel
+ Thumbnail
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 Platte
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

Capacity of the centrifuge | An overview of all capacities can be found [on page 192](#).

Control panel | Find an overview of all control panels [on page 186](#).



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/downloadcenter



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. Find more information [on page 188](#).

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](#))
For special requirements you can find further versions of our centrifuges [on page 198](#).

Product overview | Find a quick product overview [on page 200](#).

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 196](#).

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.

Symbol



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



Contents

SMALL CENTRIFUGES MANUAL CENTRIFUGE EBA HAEMATOKRIT	ON PAGE 8
MICROLITER CENTRIFUGES MIKRO	ON PAGE 30
BENCHTOP CENTRIFUGES ROTOFIX UNIVERSAL ROTINA ROTANTA	ON PAGE 46
FLOORSTANDING CENTRIFUGES ROTANTA ROTIXA ROTO SILENTA HETTINFO	ON PAGE 124
WASH CENTRIFUGE ROTOLAVIT II	ON PAGE 154
INCUBATORS HETTCUBES	ON PAGE 160
EQUIPMENT CYTO SYSTEMS ROLLING CABINET	ON PAGE 172
AUTOMATED CENTRIFUGES	ON PAGE 180
SERVICE	ON PAGE 182
CONTACT	ON PAGE 184

SMALL CENTRIFUGES

Benchtop performance in a compact footprint



MANUAL CENTRIFUGE
on page 10



EBA 200 | 200 S
on page 12



EBA 270
on page 16

01



EBA 280 | 280 S
on page 20



HAEMATOKRIT 200
on page 26

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.

— FIELDS OF APPLICATION

- Veterinary
- Field Testing
- Aid Organizations
- Pharmacies



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.

— FIELDS OF APPLICATION

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

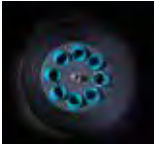


TECHNICAL DATA

	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**



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	7.5-8.5	9-10	5
Ø x L in mm	10.7 x 36	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 x 92	16 x 92	17 x 59
max. RCF ²⁾	EBA 200	2,214	2,173	2,173	2,817	2,697	2,697	3,461	2,697	2,697	2,697	3,461	3,461	3,461	2,576
max. RCF ²⁾	EBA 200 S	3,935	3,864	3,864	5,009	4,794	4,794	6,153	4,794	4,794	4,794	6,153	6,153	6,153	4,579
radius in mm	55	54	54	70	67	67	86	67	67	67	86	86	86	86	64

Cat. No. **Pediatric** **microliter tubes** **tubes²⁾** **blood collection / urine tubes** **-**



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	17.7 x 88	17.7 x 88	17.7 x 88	17.7 x 88	17 x 25
vessels per rotor	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
Cat. No.	1063-8 (8 pcs.)	6305	1054-A	1054-A	-	1054-A	1054-A	1054-A	-	-	-	-	-	-	1064

Vessels

capacity in ml	15	10	1.6-5	4-7	8	8.5-10	12
Ø x L in mm	17 x 120	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	3,461	2,697	3,461	3,461	3,461
max. RCF ²⁾	EBA 200 S	6,153	6,153	4,794	6,153	6,153	6,153
radius in mm	86	86	86	86	86	86	86

Cat. No. **-** **blood collection / urine tubes**



Adapter

boring Ø x L in mm	17.7 x 88	17.7 x 88	13.5 x 60	13.5 x 79	17.7 x 88	17.7 x 88	17.7 x 88
vessels per rotor	4	8	8	8	4	8	4
Cat. No.	-	-	1054-A	1058	-	-	-

HETTICH PACKAGES – ALL IN ONE!

No more searching for the right combination of accessories. Our packages include centrifuge, rotor, buckets and adapters – suitable for your specific application.

Find more information on [page 194](#)



EBA 270

Superior separation results in medical applications

The EBA 270 is a small centrifuge with a swing-out rotor that has been developed specifically for use in clinical settings. It can centrifuge the 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.

— FIELDS OF APPLICATION

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




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 389 x 239 mm
weight	approx. 14 kg
max. noise level	≤ 51 dB (A)
Cat. No.	
100 – 127 V 1 ~ / 50–60 Hz	2300-01
consumption	125 VA
emission, immunity	FCC class B

*) Other voltages on request.

AVAILABLE ROTORS

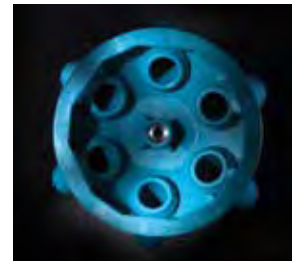
SWING-OUT ROTORS		angle	max. RPM	max. capacity	Cat. No	page
	swing-out rotor, 6-place	90°	4,000 min ⁻¹	6 x 15 ml	INCLUSIVE	18

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

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 36	10.7 x 36	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
Cat. No.	Pediatric		microliter tubes				tubes ²⁾				blood collection / urine tubes				

+ 1063-6 + 1063-6 + 1063-6 + 1063-6 + 1063-6 + 1063-6



Adapter

boring Ø x L in mm	11 x 35	11 x 35	11 x 35	11 x 35	11 x 35	11 x 35	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	2333	2331	2333	2331	2333	2331	2333	2333	2331	2333	2333	2333	2331	2331

Vessels

capacity in ml	4.9	7.5 – 10	10	1.6 – 7	4-7	8.5 – 10	12
Ø x L in mm	13 x 90	15/16 x 75	15 x 102	13/16 x 75	13 x 100	16 x 100	17 x 102
max. RCF ²⁾	2,254	2,254	2,254	1,807	2,254	2,254	2,254
radius in mm	126	126	126	101	126	126	126

Cat. No. blood collection / urine tubes



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 80	17.5 x 80	17.5 x 80
vessels per rotor	6	6	6	6	6	6	6
Cat. No.	2331	2331	2331	2333	2331	2331	2331

DID YOU KNOW?

The Download Center on our website allows you to access the most up to date documents including catalogs, brochures, data sheets and certificates.

Try it now: www.hettichlab.com/downloadcenter



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.

— FIELDS OF APPLICATION

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



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.		
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,	90°	6,000 min ⁻¹	6 x 15 ml	1146	22
 swing-out rotor, 8-place	90°	5,000 min ⁻¹	8 x 7 ml	1148	23
 swing-out rotor, 12-place	60°	5,000 min ⁻¹	12 x 5 ml	1142	23

ANGLE ROTORS

 angle rotor, 6-place	35°	6,000 min ⁻¹	6 x 50 ml	1137	24
 angle rotor, 12-place	35°	5,000 min ⁻¹	12 x 7 ml	1133	24
 angle rotor, 12-place	35°	6,000 min ⁻¹	12 x 15 ml	1139	25

— 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.)



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	10.7x36	11 x 38	11 x 38	10x88	12x75	12x82	17x100	8x66	13x65	11x66	15x75	11x92	13x90	15/16x92	13x75
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
Cat. No.	Pediatric	microliter tubes			tubes ²⁾			blood collection / urine tubes							



Adapter

boring Ø x L in mm	11 x 35	11 x 35	11 x 35	17.5x80	13.5x59	17.5x80	17.5x80	13.5x59	13.5x59	13.5x59	17.5x80	17.5x80	17.5x80	17.5x80	13.5x59
vessels per rotor	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
Cat. No.	1063-8 (6 pcs.)			-	1053-6	0767-6	-	1053-6 (6 pcs.)			-	-	-	-	1053-6

Vessels

capacity in ml	4–7	4–7	8.5–5	12
Ø x L in mm	16x75	13x100	16 x 100	17x102
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
Cat. No.	blood collection/urine tubes			



Adapter

boring Ø x L in mm	17.5x80	17.5x80	17.5x80	17.5x80
vessels per rotor	6	6	6	6
Cat. No.	0767-6	-	-	-

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

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
Cat. No.	tubes²⁾			blood collection / urine tubes				



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	12 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
Cat. No.	tube²⁾	blood collection / urine tubes		



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

— 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

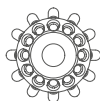
capacity in ml	7	15	25	50	9-10	10	1.6-5	4-7	15	50	30	50
Ø x L in mm	12 x 100	17 x 100	24 x 100	34 x 100	16 x 92	15 x 102	13 x 75	13 x 100	17 x 120	29 x 115	26 x 95	29 x 107
max. RCF ²⁾	3,944	3,783	3,703	4,025	3,783	3,783	2,978	3,783	3,824	3,824	3,703	3,904
radius in mm	98	94	92	100	94	94	74	94	95	95	92	97
Cat. No.	tubes ²⁾				blood collection / urine tubes				tubes with screw cap			



Adapter

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

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
Cat. No.	tubes ²⁾		

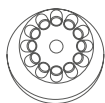


Adapter

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.

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



Vessels

capacity in ml	0.5	1.5	2	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	4-7
Ø x L in mm	10.7 x 36	11 x 38	11 x 38	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	13 x 100
max. RCF ²⁾	2,777	2,737	2,737	3,300	3,300	4,146	3,300	3,300	3,300	4,146	4,146	4,146	4,146	3,300	4,146
radius in mm	69	68	68	82	82	103	82	82	82	103	103	103	103	82	103
Cat. No.	Pediatric	microliter tubes		tubes²⁾			blood collection / urine tubes								



Adapter

boring Ø x L in mm	11 x 35	11 x 35	11 x 35	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	13.5 x 60	13.5 x 79
vessels per rotor	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
Cat. No.	1063-6 (6 pcs.)			1054-A		-	1054-A			-	-	-	-	1054-A	1058

Vessels

capacity in ml	8	8.5-10	12	5	15
Ø x L in mm	16 x 125	16 x 100	17 x 102	17 x 59	17 x 120
max. RCF ²⁾	4,146	4,146	4,146	3,180	4,146
radius in mm	103	103	103	79	103
Cat. No.	blood collection / urine tubes			-	-



Adapter

boring Ø x L in mm	17.7 x 88	17.7 x 88	17.7 x 88	17 x 25	17.7 x 88
vessels per rotor	6	12	6	12	6
Cat. No.	-	-	-	1064	-

HAEMATOKRIT 200

Haematokrit determination just in 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

— FIELDS OF APPLICATION

- Paediatric clinics
- Manufacturers of analyzing systems
- Small hospitals
- Sports medicine



TECHNICAL DATA

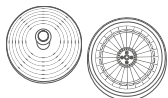
HAEMATOKRIT 200	
voltage *)	200 – 240 V 1 ~
frequency	50 – 60 Hz
consumption	270 VA
emission, immunity	EN/IEC 61326-1, class B
max. capacity	20 / 24 capillaries
max. RPM	13,000 min ⁻¹
max. RCF	16,060
running time	1 – 99 min, ∞ continuous run, short cycle mode (impulse button)
dimensions (WxDxH)	261 x 353 x 228 mm
weight	approx. 10 kg
max. noise level	≤ 56 dB (A)
Cat. No.	
100 – 127 V 1 ~ / 50–60 Hz	1801-01
emission, immunity	FCC class B

*) Other voltages on request.

AVAILABLE ROTORS

DISK ROTORS		angle	max. RPM	max. capacity	Cat. No	page
	disk rotor, 24-place (haematocrit analysis)	90°	13,000 min ⁻¹	24 capillaries	2076	28
	disk rotor, 20-place (buffy coat analysis)	90°	13,000 min ⁻¹	20 capillaries	2056	28

DISK 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.	2076



Capillaries

Standard	
max. RCF ²⁾	16,060
radius in mm	85
Cat. No.	-



Adapter

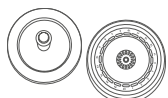
boring Ø x L in mm	-
capillaries per rotor	24
Cat. No.	-

HOLDING TRAYS

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



DISK ROTOR, 20-PLACE | 2056




Rotor

max. RPM max. RCF	13,000 min ⁻¹ 16,060
max. capacity	20 capillaries
run up run down, braked in sec	9 16
angle max. noise level	90° 56 dB (A)
lid	inclusive
Cat. No.	2056¹⁰⁾



Capillaries

for buffy coat analysis	
max. RCF ²⁾	16,060
radius in mm	85
Cat. No.	-



Adapter

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

HETTICH PACKAGES – ALL IN ONE!

No more searching for the right combination of accessories. Our packages include centrifuge, rotor, buckets and adapters – suitable for your specific application.

Find more information on [page 194](#)



MICROLITER CENTRIFUGES

Powerful results at the micro level



MIKRO 185
on page 32

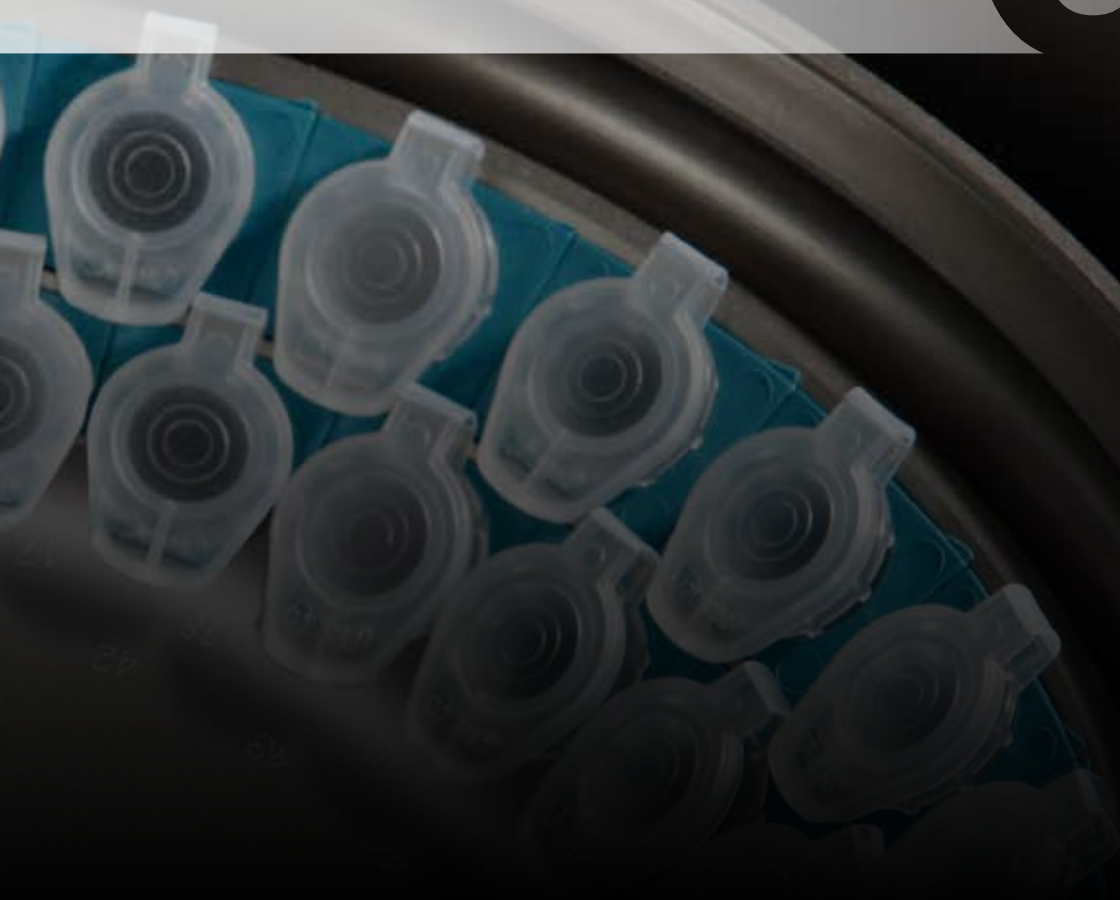


MIKRO 200 | 200 R
on page 36



MIKRO 220 | 220 R
on page 40

02



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.

— FIELDS OF APPLICATION

- Hospitals
- University / Academic Research
- Pediatric clinics
- Pharmaceutical companies
- Food analyzing labs
- University / Academic Research
- Forensic labs
- Paternity testing labs
- Blood centers



according to directive 98/79/EC

TECHNICAL DATA

MIKRO 185	
voltage *)	200 – 240 V 1 ~
frequency	50 – 60 Hz
consumption	330 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.	
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	34
	angle rotor, 12-place	45°	14,000 min ⁻¹	12 x 2 ml	1252-A	34
	angle rotor, 18-place	45°	14,000 min ⁻¹	18 x 2 ml	1258-A	35
	angle rotor, 18-place for spin column kits	45°	14,000 min ⁻¹	18 x 2 ml	1213-A	35

— 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 bioseal⁹⁾

Cat. No.

**INCLUSIVE**

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 36
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

Cat. No.	microliter tubes						Pediatric
-----------------	-------------------------	--	--	--	--	--	------------------



Adapter

boring Ø x L in mm	6 x 40	6 x 40	8 x 40	8 x 40	-	11.2 x 39
vessels per rotor	24	24	24	24	24	24

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**

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 36
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

Cat. No.	microliter tubes						Pediatric
-----------------	-------------------------	--	--	--	--	--	------------------

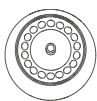



Adapter


boring Ø x L in mm	6 x 40	6 x 40	8 x 40	8 x 40	-	11.2 x 39
vessels per rotor	12	12	12	12	12	12


Cat. No.	2024	2024	2023	2023	2031⁷⁾	-	0788
-----------------	-------------	-------------	-------------	-------------	--------------------------	----------	-------------

ANGLE ROTOR, 18-PLACE | 1258-A

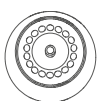

			
Rotor		Lid	
max. RPM max. RCF	14,000 min ⁻¹ 16,654	Cat. No.	INCLUSIVE
max. capacity	18 x 2 ml		
run up run down, braked in sec	15 15		
angle max. noise level	45° 56 dB (A)		
Cat. No.	1258-A		



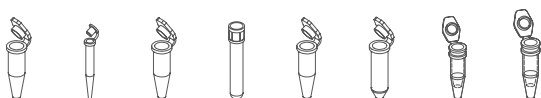
	
Vessels	
capacity in ml	0.2 0.4 0.5 0.8 1.5 2.0 0.5
Ø x L in mm	6 x 18 6 x 45 8 x 30 8 x 45 11 x 38 11 x 38 10,7 x 36
max. RCF ²⁾	16,654 16,654 16,654 16,654 16,654 16,654 15,558
radius in mm	76 76 76 76 76 76 71
Cat. No.	microliter tubes Pediatric

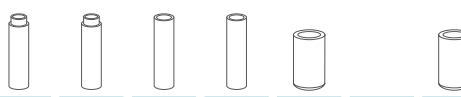
	
Adapter	
boring Ø x L in mm	6 x 40 6 x 40 8 x 40 8 x 40 - 10.2 x 19 11.2 x 39
vessels per rotor	18 18 18 18 18 18 9
Cat. No.	2024 2024 2023 2023 2031⁷⁾ - 0788

ANGLE ROTOR, 18-PLACE | 1213-A

			
Rotor		Lid bioseal⁹⁾	
max. RPM max. RCF	14,000 min ⁻¹ 16,654	Cat. No.	1246
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		



	
Vessels	
capacity in ml	0.2 0.4 0.5 0.8 1.5 2.0 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 11 x 38 11 x 38
max. RCF ²⁾	16,654 16,654 16,654 16,654 16,654 16,654 16,654 16,654
radius in mm	76 76 76 76 76 76 76 76
Cat. No.	microliter tubes micro spin columns

	
Adapter	
boring Ø x L in mm	6 x 40 6 x 40 8 x 40 8 x 40 10.2 x 19 11.2 x 39 10.2 x 19 11.2 x 39
vessels per rotor	18 18 18 18 18 18 18 18
Cat. No.	2024 2024 2023 2023 2031⁷⁾ - 2031⁷⁾ -

MIKRO 200 | 200 R

Faster results in molecular biology

The MIKRO 200 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).

— FIELDS OF APPLICATION

- Hospitals
- University / Academic Research
- Pediatric clinics
- Pharmaceutical companies
- Food analyzing labs
- University / Academic Research
- Forensic labs
- Paternity testing labs
- Blood centers



according to directive 98/79/EC




TECHNICAL DATA

	MIKRO 200 classic	MIKRO 200 R cooled
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

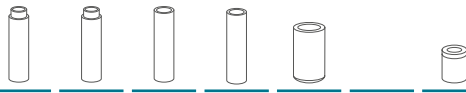
	angle	max. RPM	max. capacity	Cat. No.	page
 angle rotor, 24-place	45°	15,000 min ⁻¹	24 x 2 ml	2434	38
 angle rotor, 30-place	45° inside / 55° outside	15,000 min ⁻¹	30 x 2 ml	2437	38
 angle rotor, 24-place for spin column kits	45°	15,000 min ⁻¹	24 x 2 ml	2428	39

ANGLE ROTOR, 24-PLACE | 2434



			
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.	2434		




	
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 36
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
Cat. No.	microliter tubes Pediatric

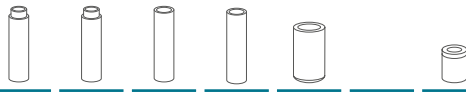
	
Adapter	
boring Ø x L in mm	6 x 40 6 x 40 8 x 40 8 x 40 - 11.2x42.6 11.2x39
vessels per rotor	24 24 24 24 24 24 12
Cat. No.	2024 2024 2023 2023 2031⁷⁾ - 0788

ANGLE ROTOR, 30-PLACE | 2437

			
Rotor		Lid bioseal ⁵⁾	
max. RPM max. RCF	15,000 min ⁻¹ 21,382	Cat. No.	INCLUSIVE
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		



	
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 36
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
Cat. No.	microliter tubes Pediatric

	
Adapter	
boring Ø x L in mm	6 x 40 6 x 40 8 x 40 8 x 40 - 11.2x41.3 11.2x39
vessels per rotor	30 30 30 30 30 30 15
Cat. No.	2024 2024 2023 2023 2031⁷⁾ - 0788

All footnotes in the catalog can be found on the last page.

— ANGLE ROTOR, 24-PLACE | 2428



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.	2428



Lid bioseal ²⁾

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



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	6 x 18	6 x 45	8 x 30	8 x 45	11 x 38	11 x 38	11 x 38	11 x 38	10.7 x 36
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
Cat. No.	microliter tubes					micro spin columns		Pediatric	



Adapter

									
boring Ø x L in mm	6 x 40	6 x 40	8 x 40	8 x 40	-	10.2x19	-	11.2x42.6	11.2x39
vessels per rotor	24	24	24	24	24	24	24	24	12
Cat. No.	2024	2024	2023	2023	2031 ⁷⁾	-	2031 ⁷⁾	-	0788

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 7 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).

— FIELDS OF APPLICATION

- Hospitals
- University / Academic Research
- Pediatric clinics
- Pharmaceutical companies
- Food analyzing labs
- University / Academic Research
- Forensic labs
- Paternity testing labs
- Blood centers



according to directive 98/79/EC


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 sec – 99 min, ∞ continuous run, short cycle mode (impulse button)	1 sec – 99 min, ∞ continuous run, short cycle mode (impulse button)
dimensions (WxDxH)	330x420x313 mm	330x650x313 mm
weight	approx. 21 kg	approx. 42 kg
noise level	59 dB (A) with rotor 1158-L	60 dB (A) with rotor 1158-L
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	43

ANGLE ROTOR

 Angle rotor, 24-place	45°	18,000 min ⁻¹	24 x 2 ml	1195-A	42
 Angle rotor, 30-place	45°	14,000 min ⁻¹	30 x 2 ml	1189-A	42
 Angle rotor, 48-place	45°	14,000 min ⁻¹	48 x 2 ml	1158-L	43
 Angle rotor, 6-place	45°	6,000 min ⁻¹	6 x 50 ml	1016	44
 Drum rotor, 6-place	90°	13,000 min ⁻¹	60 x 2 ml	1161	44
 Angle rotor, 12-place	35°	6,000 min ⁻¹	12 x 15 ml	1015	45


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


	
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 36
max. RCF ²⁾	31,514 31,514 31,514 31,514 31,514 31,514 31,514
radius in mm	87 87 87 87 87 87 83
Cat. No.	microliter tubes Pediatric

	
Adapter	
boring Ø x L in mm	6 x 40 6 x 40 8 x 40 8 x 40 - 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

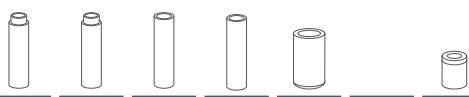
	
Rotor	
max. RPM max. RCF	14,000 min ⁻¹ 21,255
max. capacity	30 x 2 ml
run-up run-down, braked in sec	20 22
angle max. noise level	45° 58 dB (A)
temperature in °C ¹⁾	+3
Cat. No.	1189-A

Lid bioseal ⁵⁾

Cat. No.


INCLUSIVE


	
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 36
max. RCF ²⁾	21,255 21,255 21,255 21,255 21,255 21,255 21,255
radius in mm	97 97 97 97 97 97 93
Cat. No.	microliter tubes Pediatric

	
Adapter	
boring Ø x L in mm	6 x 40 6 x 40 8 x 40 8 x 40 - 11,2x40,9 11,2x39
vessels per rotor	30 30 30 30 30 30 15
Cat. No.	2024 2024 2023 2023 2031⁷⁾ - 0788

All footnotes in the catalog can be found on the last page.

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 bioseal⁵⁾

Cat. No.



INCLUSIVE



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⁾	21,255 / 18,845	21,255 / 18,845	21,255 / 18,845	21,255 / 18,845	21,255 / 18,845	21,255 / 18,845
radius in mm	97 / 86	97 / 86	97 / 86	97 / 86	97 / 86	97 / 86

Cat. No. microliter tubes

Adapter

boring Ø x L in mm	6 x 40	6 x 40	8 x 40	8 x 40	10.2 x 19	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

max. RPM max. RCF	13,000 min ⁻¹ 18,516
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⁾	+1

Cat. No. 1154-L

Lid bioseal⁵⁾

Cat. No.



INCLUSIVE



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⁾	18,516	18,516	18,516	18,516	18,516	18,516
radius in mm	98	98	98	98	98	98

Cat. No. microliter tubes

Adapter

boring Ø x L in mm	6 x 40	6 x 40	8 x 40	8 x 40	-	11.5 x 38.5
vessels per rotor	24	24	24	24	24	24

Cat. No. 2024 2024 2023 2023 2031⁷⁾ -

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

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	3,703	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	92	100	94	94	74	94	90	95	95	92	97
Cat. No.	tubes²⁾				blood collection / urine tubes				-	tubes with screw cap			



Adapter

boring Ø x L in mm	13 x 92	17.5 x 95	26 x 88	35x96	17.5x95	17x51	17.5 x 95	17.5 x 95	17x51	17x98	30x98	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

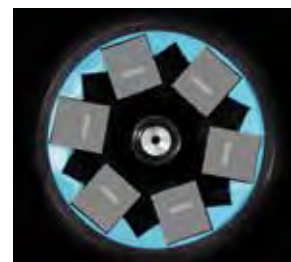


Rotor

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

capacity in ml	0.2	0.4	0.5	0.8	1.5	2.0
Ø x L in mm	6x18	6x45	8x30	8x45	11x38	11x38
max. RCF ²⁾	14,171	14,171	14,171	14,171	14,171	14,171
radius in mm	75	75	75	75	75	75
Cat. No.	microliter tubes					



Adapter

boring Ø x L in mm	6 x 40	6 x 40	8.4 x 43	8.4 x 43	10.8x37	10.8x37
vessels per rotor	24	24	24	24	24	24
Cat. No.	1378	1378	1379	1379	1377	1377

— 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	7.5–8.5	9–10	10	1.6–5	4-7	8.5–10	5	15
Ø x L in mm	12x75	17x100	8x66	13x65	11x66	11x92	13x90	15x92	16x92	15x102	13x75	13x100	16x100	17x59	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	3,180	4,146
radius in mm	82	103	82	82	82	103	103	103	103	103	82	103	103	79	103
Cat. No.	tubes ³⁾		blood collection / urine tubes											-	-



Adapter

boring Ø x L in mm	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	13.5 x 60	13.5 x 79	17.7 x 88	17 x 25	17.7 x 88
vessels per rotor	12	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	-	1064	-

BENCHTOP CENTRIFUGES

Specialists in diversity



ROTOFIX 32 A
on page 48



UNIVERSAL 320 | 320 R
on page 60



ROTINA 380 | 380 R
on page 82

03



ROTINA 420 | 420 R
on page 94



ROTANTA 460 | 460 R
on page 102



ROTOFIX 46 | 46 H
on page 118

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 6 x 94 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.

— FIELDS OF APPLICATION

- Hospitals
- Veterinary labs
- Cell culture labs
- University / Academic Research
- Pharmaceutical labs
- Physician's office laboratory (POL)












according to directive 98/79/EC

TECHNICAL DATA

ROTOFIX 32 A non-refrigerated	
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)
dimesions (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	50
	swing-out rotor, 4-place	90°	4,000 min ⁻¹	4x100 ml	1324	53
	swing-out rotor, 6-place	90°	4,000 min ⁻¹	6x50 ml	1619	55
	swing-out rotor, 8-place	45°	4,000 min ⁻¹	8x50 ml	1617	55
	swing-out rotor, 8-place	90°	4,000 min ⁻¹	8x15 ml	1611	56
	swing-out rotor, 12-place	55° / 60° / 80°	4,000 min ⁻¹	12x15 ml	1628	56
ANGLE ROTORS						
	angle rotor, 8-place	45°	4,000 min ⁻¹	8x50 ml	1418	57
	angle rotor, 6-place	35°	6,000 min ⁻¹	6x94 ml	1620A	58
	angle rotor, 12-place	35°	6,000 min ⁻¹	12x15 ml	1613	59

CYTO Cyto system available for this model.
More information on [page 174](#)

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

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⁾	2,057	2,164	2,308	2,308	2,308	2,415	2,308	2,451	2,361	2,451	2,361	2,451
radius in mm	115	121	129	129	129	135	129	137	132	137	132	137
Cat. No.	tubes²⁾											



Adapter

boring Ø x L in mm	12.5x64.4	13.5x65	12.5x71.5	12.5x71.5	14.6x74	14.6x78	17.6x74	17.6x78	21.5x74	26x78	32x74	35x78
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

Vessels

capacity in ml	1.1–1.4	2.6–3.4	4–5.5	4.9	1.6–5	4–7	1.6–5	4–7	4–7	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 75	16 x 75	13 x 100	13 x 100	13 x 100	16 x 100	26 x 95	simple / multiple
max. RCF ²⁾	2,415	2,325	2,325	2,451	2,129	2,361	2,325	2,325	2,361	2,361	2,451	2,451	2,451	1,646
radius in mm	135	130	130	137	119	132	130	130	132	132	137	137	137	92
Cat. No.	blood collection / urine vessels													-





Adapter

boring Ø x L in mm	14.6x78	17.6x78	17.6x78	14.6x78	14.6x78	17.6x74	17.6x78	17.6x78	17.6x74	14.6x74	13.5x78	17.6x74	26x78	-
vessels per rotor	40	28	28	40	40	16	28	28	16	20	28	16	8	4
Cat. No.	1741	1742	1742	1741	1741	1369⁴⁾	1742	1742	1369⁴⁾	1370⁴⁾	1739	1369⁴⁾	1745	1660

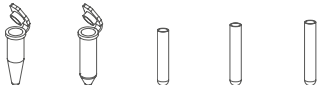
CYTO


For more information about our Cyto accessory, see page 174

SWING-OUT ROTOR, 4-PLACE | 1624


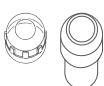
			
Rotor		Bucket	
max. RPM max. RCF	4,000 min ⁻¹ 1,968	Cat. No.	1366
max. capacity	48 x 4 ml		
run-up run-down, braked in sec	22 25		
angle max. noise level	90° 56 dB (A)		
Cat. No.	1624		



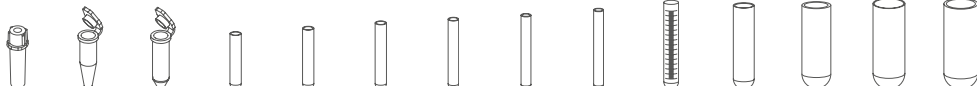

	
Vessels	
capacity in ml	1,5 2,0 1 3 4
Ø x L in mm	11 x 38 11 x 38 6 x 45 10 x 60 12 x 60
max. RCF ²⁾	1,968 1,968 1,950 1,932 1,932
radius in mm	110 110 109 108 108
Cat. No.	microliter tubes Rhesus tubes²⁾

	
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 44
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		



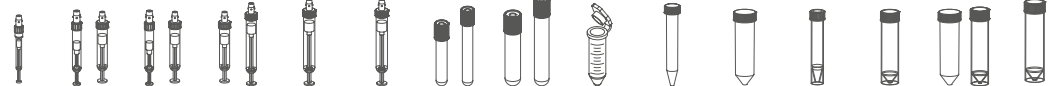
	
Vessels	
capacity in ml	0,5 1,5 2,0 1 3 5 6 7 9 15 25 50 94 100
Ø x L in mm	10.7 x 36 11 x 38 11 x 38 6 x 45 10 x 60 12 x 75 12 x 82 12 x 100 14 x 100 17 x 100 24 x 100 34 x 100 38 x 102 44 x 100
max. RCF ²⁾	2,379 2,451 2,451 2,594 2,630 2,558 2,558 2,558 2,540 2,540 2,433 2,415 2,612 2,558
radius in mm	133 137 137 145 147 143 143 143 142 142 136 135 146 143
Cat. No.	Pediatric microtubes Rhesus tubes²⁾
	
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 48 13.4 x 48 13.4 x 48 17.6 x 91 17.6 x 91 25.2 x 87 35.2 x 87 38.5 x 92 45.9 x 98
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


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 2.7–5 2.6–4.9 4–8.5 9–10 10 1.6–7 4–10 5 15 50 12 25 30 50
Ø x L in mm	8 x 66 11x66/92 13x65/90 15x75/92 16x92 15x102 13x75/100 16x75/100 17x59 17x120 29x115 17 x 100 25 x 90 25 x 110 29 x 115
max. RCF ²⁾	2,576 2,558 2,558 2,576 2,540 2,665 2,558 2,522 2,665 2,665 2,665 2,665 2,343 2,665 2,665
radius in mm	144 143 143 144 142 149 143 141 149 149 149 149 131 149 149
Cat. No.	<div>blood collection / urine vessels</div> <div>-</div> <div>tubes with screw cap</div>

	
Adapter	
boring Ø x L in mm	9x49 13.4x48 13.4x48 15.6x47 17.6x91 17.6x91 13.4x48 16.5x56 17x45 17x90 30x90 17x80 26x72 26x80 29.5x80
vessels per rotor	28 20 20 16 16 16 20 16 12 4 4 4 4 4 4
Cat. No.	<div>1457 1383 1383 1459 1329 1329⁴⁾ 1383 1348 6341 1347 1384 6311 1363 1365 6318</div>

	
Vessels	
capacity in ml	10 30 50 85 30
Ø x L in mm	16 x 80 26 x 95 29 x 107 38 x 106 44 x 105
max. RCF ²⁾	2,522 2,451 2,630 2,612 2,540
radius in mm	141 137 147 146 142
Cat. No.	<div>tubes with screw cap</div> <div>0534^{®)}</div>

	
Adapter	
boring Ø x L in mm	16.5x56 26x83 29x93 38.5x92 45.9x98
vessels per rotor	16 4 4 4 4
Cat. No.	<div>1348 4417 4416 1396 0765</div>

SWING-OUT ROTOR, 4-PLACE | 1324

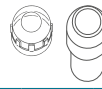
Rotor

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



Vessels

capacity in ml	0,5	1,5	2,0	1	3	4	5	6	7	9	15	25	50	94	100
Ø x L in mm	10.7x36	11x38	11x38	6x45	10x60	10x88	12x75	12x82	12x100	14x100	17x100	24x100	34x100	38x102	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
Cat. No.	Pediatric	microliter tubes	Rhesus	tubes²⁾											



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	

Vessels

capacity in ml	1.1–1.4	2.6–3.4	4.9	2.7–3	4.5–5	4–5.5	7.5–8.5	9–10	10	1.6–5	4–7	4–7	8.5–10	5	15
Ø x L in mm	8 x 66	13x65	13x90	11x66	11x92	15x75	15x92	16x92	15x102	13x75	13x100	16x75	16x100	17x59	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	2,630
radius in mm	142	141	141	141	141	142	142	140	147	141	141	139	139	147	147
Cat. No.	blood collection / urine vessels														-



Adapter

boring Ø x L in mm	9x47	13.4x48	13.4x48	13.4x48	13.4x48	15.6x47	15.6x47	17.6x91	17.6x91	13.4x48	13.4x48	16.5x56	16.5x56	17x45	17x90
vessels per rotor	28	20	20	20	20	16	16	16	16	20	20	16	16	12	4
Cat. No.	1457	1383	1383	1383	1383	1459	1459	1329	1329⁴⁾	1383	1383	1348	1348	6341	1347

Vessels


capacity 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	44x105
max. RCF ²⁾	2,630	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	147	129	147	147	139	135	145	144	140
Cat. No.	tubes with screw cap											0534⁶⁾



Adapter
















boring Ø x L in mm	17x107	26x80	30x90	17x80	26x72	26x80	29.5x80	16.5x56	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	4,000 min ⁻¹ 2,612
max. capacity	4 x 50 ml
run-up run-down, braked in sec	27 30
angle	90° 56 dB (A)
Cat. No.	1324







	
Bucket	
Cat. No.	1398



Vessels																
capacity in ml		5	6	7	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	4-7
Ø x L in mm		12x75	12x82	12x100	14x100	17x100	13x65	11x66	15x75	11x92	13x90	16x92	15x102	13x75	13x100	16x75
max. RCF ²⁾		2,486	2,486	2,486	2,522	2,522	2,486	2,486	2,272	2,486	2,486	2,522	2,522	2,486	2,486	2,397
radius in mm		139	139	139	141	141	139	139	127	139	139	141	141	139	139	134
Cat. No.		tubes²⁾					blood collection / urine vessels									

Adapter																
boring Ø x L in mm		13.4x57.5	13.4x57.5	13.4x57.5	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	17.5x81
vessels per rotor		20	20	20	16	16	20	20	16	20	20	16	16	20	20	16
Cat. No.		1486	1486	1486	1482A	1482A	1486	1486	1482A	1486	1486	1482A	1482A	1486	1486	1482A

Vessels							
capacity in ml		8.5-10	12	15	50	12	50
Ø x L in mm		16x100	17x102	17x120	29x115	17x100	29x115
max. RCF ²⁾		2,397	2,451	2,612	2,576	2,522	2,576
radius in mm		134	137	146	144	141	144
Cat. No.		blood collection / urine vessels		tubes with screw cap			

Adapter							
boring Ø x L in mm		17.5x81	17.5x74	17x100	30x98	17.5x81	30x98
vessels per rotor		16	12	16	4	16	4
Cat. No.		1482A	1487	1483A	1484	1482A	1484²⁾

— SWING-OUT ROTOR, 6-PLACE | 1619

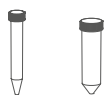


Rotor

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	



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
Cat. No.	tubes with screw cap	



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

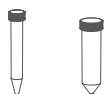


Rotor

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	



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
Cat. No.	tubes with screw cap	



Adapter



boring Ø x L in mm	17 x 84	30 x 94.5
vessels per rotor	8	8
Cat. No.	1462-A	-

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



Vessels

capacity in ml	5	6	7	10	15	2.6-3.4	2.7-3	4-5.5	4.5-5	7.5-8.5	1.6-5	4-7	4-7	8.5-10
Ø x L in mm	12x75	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
Cat. No.	tubes²⁾					blood collection / urine vessels								



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



Vessels

capacity in ml	5	15	2.6-3.4	2.7-3	4-5.5	7.5-8.5	1.6-5	4-7	8.5-10
Ø x L in mm	12x75	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
Cat. No.	tubes²⁾		blood collection / urine vessels						



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

All footnotes in the catalog can be found on the last page.

— 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

capacity in ml	5	15	1.1-1.4	2.6-3.4	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 x 75	17 x 100	8 x 66	13 x 65	11 x 66	16 x 92	13 x 75	13 x 100	16 x 100	17 x 102	17 x 120	29 x 115	17 x 100	29 x 115	29 x 107
max. RCF ²⁾	2,182	2,540	2,182	2,182	2,182	2,540	2,182	2,612	2,540	2,540	2,594	2,486	2,540	2,486	2,486
radius in mm	122	142	122	122	122	142	122	146	142	142	145	139	142	139	139

Cat. No.

tubes ²⁾	blood collection / urine vessels								tubes with screw cap						
+ 1054-A	+ 0716	+ 1054-A	+ 1054-A	+ 1054-A	+ 0716	+ 1054-A		+ 0716	+ 0716	+ E2109	+ E2110-A	+ 0716			
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	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	32	32	8	32	8	8	8
Cat. No.	1467	1467	1467	1467	1467	1467	1467	1467	1467	1467	1468	1467	1468	1468	1468



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	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
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

ANGLE ROTOR, 6-PLACE | 1620A



Rotor

max. RPM max. RCF	6,000 min ⁻¹ 4,226
max. capacity	6 x 94 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 – 8.5	9 – 10	10	8.5 – 10	5	15	50	50
Ø x L in mm	10.7 x 36	11 x 38	11 x 38	10 x 60	17 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	29 x 115
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	3,824	3,985	3,985	3,985
radius in mm	102	102	102	102	97	103	105	97	97	97	97	95	99	99	99
Cat. No.	Pediatric	microliter tubes	tubes²⁾				blood collection / urine vessels				-	tubes with screw cap			



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	35 x 89	38.6 x 90.2	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	3	6
Cat. No.	1449	1449	1449	1449	1451	1463	-	1451	1451	1451	1451	1476	1466	1454	1646³⁾

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⁾	3,904	3,824	4,025	4,226
radius in mm	97	95	100	105
Cat. No.	tubes with screw cap			



Adapter

boring Ø x L in mm	16.5 x 74	26 x 85	29 x 92	38.6 x 90.2
vessels per rotor	12	6	6	6
Cat. No.	1448	1447	1446	-

— 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

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	7.5–8.5	9–10	10
Ø x L in mm	10.7x36	10x88	12x75	12x82	17x100	8 x 66	13x65	11x66	11x92	13x90	15x92	16x92	15x102
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
Cat. No.	Pediatric	tubes ²⁾				blood collection / urine vessels							



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	-	-	-	-	-

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
Cat. No.	blood collection / urine vessels				-	-



Adapter

boring Ø x L in mm	13.5 x 60	13.5 x 79	17.7 x 88	17.7 x 88	17 x 25	17.7 x 88
vessels per rotor	12	12	6	12	12	6
Cat. No.	1054-A	1058	-	-	1064	-

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).

— FIELDS OF APPLICATION

- Small labs
- Hospitals
- Veterinary labs
- Cell Culture labs
- University / Academic Research
- Pharmaceutical companies
- Food analyzing labs
- Physicians office lab (POL)



according to directive 98/79/EC

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	62
swing-out rotor, 4-places	90°	5,000 min ⁻¹	4x100 ml	1494	65
swing-out rotor, 4-places	90°	4,000 min ⁻¹	4x100 ml	1624	68
swing-out rotor, 4-places	90°	4,500 min ⁻¹	4x100 ml	1324	71
swing-out rotor, 8-places	90°	4,000 min ⁻¹	8x15 ml	1611	73
swing-out rotor, 12-places	90°	5,000 min ⁻¹	12x15 ml	1628	73
swing-out rotor, 8-places	45°	5,000 min ⁻¹	8x50 ml	1617	74
swing-out rotor, 6-places	90°	4,000 min ⁻¹	6x50 ml	1619	74
swing-out rotor, 2-places	90°	4,000 min ⁻¹	10 plates	1460	75
swing-out rotor, 24-places	90°	13,000 min ⁻¹	24x2 ml	1555	75

ANGLE ROTORS

angle rotor, 24-places	50°	16,000 min ⁻¹	24x2 ml	1552	76
angle rotor, 30-places	45°	14,150 min ⁻¹	30x2 ml	1553	76
angle rotor, 64-places	45°	13,000 min ⁻¹	64x0.2 ml	1551	77
angle rotor, 18-places	45°	14,150 min ⁻¹	18 x 5 ml	1627	77
angle rotor, 6-places	35°	9,000 min ⁻¹	6x85 ml	1556	78
angle rotor, 12-places	35°	6,000 min ⁻¹	12x15 ml	1613	79
angle rotor, 12-places	35°	12,000 min ⁻¹	12x15 ml	1615	80
angle rotor, 8-places	45°	4,500 min ⁻¹	8x50 ml	1418	81

CYTO

Cyto system available for this model.
More information on [page 174](#)

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

Lid bioseal ⁵⁾	1561
Cat. No.	1560
Bucket without clamp lock ¹⁴⁾	
Cat. No.	1565



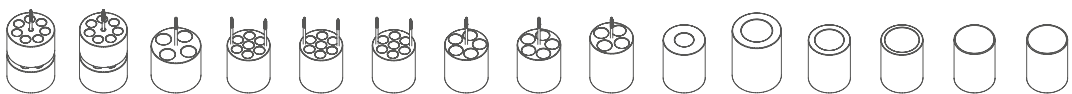
Vessels

capacity in ml	1.5	2.0	5	5	6	7	9	15	15	25	50	94	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 102	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	3,147	3,328	3,328
radius in mm	147	103	147	142	142	142	142	142	144	135	139	144	139	147	147
Cat. No.	microlicter tubes			tubes²⁾										0536	-



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



Vessels

capacity in ml	200	1.1–1.4	2.6–3.4	4.9	2.7–3	4.5–5	4–5.5	7.5–8.5	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
Cat. No.	0555	blood collection / urine vessels													



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 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



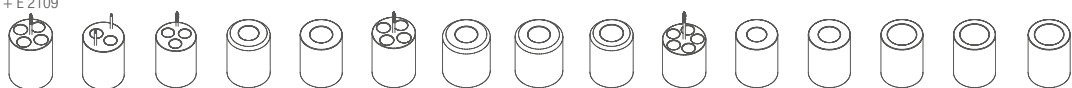
Vessels

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	29 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
Cat. No.	Nunc®	tubes with screw cap													0534⁶⁾



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
-----------------	-------------



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	16x92	10x102	13x75	13x100
max. RCF ²⁾	3,192	3,192	3,192	3,328	3,260	3,260	3,192	3,192	3,124	3,192	3,192	3,260	3,260	3,192	3,192
radius in mm	141	141	141	147	144	144	141	141	138	141	141	144	144	141	141
Cat. No.	tubes ²⁾						blood collection / urine vessels								



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

Vessels



capacity in ml	4 – 7	8.5 – 10	8	12	15	50	12	50
Ø x L in mm	16x75	16x100	16x125	17x102	17x120	29 x 115	17x100	29x115
max. RCF ²⁾	3,124	3,260	3,328	3,147	3,351	3,305	3,260	3,305
radius in mm	138	144	147	139	148	146	144	146
Cat. No.	blood- / urine vessels				tubes with screw cap			







Adapter





boring Ø x L in mm	17.5x81	17.5x81	17.5x81	17.5x74	17x100	30x98	17.5x81	30x98
vessels per rotor	16	16	16	12	16	4	16	4
Cat. No.	1482A	1482A	1482A ⁴⁾	1487	1483A	1484	1482A	1484 ⁴⁾

SWING-OUT ROTOR, 4-PLACE | 1554

			
Rotor		Bucket	
max. RPM max. RCF	4,500 min ⁻¹ 3,260	Cat. No.	1563
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		



					
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	
Cat. No.	tubes with screw cap				

					
			+ E 2109	+ E 2110-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	-	-	

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
-----------------	-------------



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	11 x 38	11 x 38	6 x 45	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	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	2,739
radius in mm	139	139	142	140	140	140	140	140	140	140	140	136	98
Cat. No.	microliter tubes	Rhesus	tubes ²⁾										cyto chambers



Adapter

boring Ø x L in mm	11.5 x 38	11.5 x 38	6.5 x 34	10.5 x 40	13.4 x 50	12.7 x 60	12.7 x 60	17.5 x 84	17.5 x 84	25.5 x 84	35.5 x 84	45.5 x 86	-
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

Vessels

capacity in ml	2.6 - 3.4	2.7 - 3	4 - 5.5	4.5 - 5	4.9	7.5 - 8.5	9 - 10	1.6 - 5	4 - 7	4 - 7	8.5 - 10	15	50	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	17 x 120	29 x 115	19 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	4,081	4,081
radius in mm	140	140	140	140	140	140	140	140	140	140	140	146	146	146
Cat. No.	blood collection / urine vessels											tubes with screw cap		




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	17 x 90	30 x 90	30 x 90
vessels per rotor	28	28	28	28	28	28	16	28	28	28	28	4	4	4
Cat. No.	1438	1438	1441	1438	1438	1441	1439	1438	1438	1441	1441	1442	1443	1737

CYTO


For more information about our Cyto accessory, see [page 174](#)


SWING-OUT ROTOR, 4-PLACE | 1494

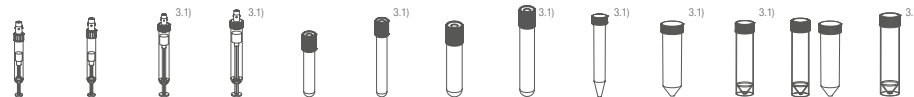
	
Rotor	
max. RPM max. RCF	5,000 min ⁻¹ 4,109
max. capacity	4 x 50 ml
run-up run-down, braked in sec	30 32
angle max. noise level	90° 54 dB (A)
temperature in °C ¹⁾	-10
Cat. No.	1494

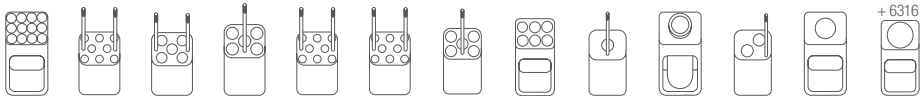
	
Bucket	
Lid	1421
Cat. No.	1427



	
Vessels	
capacity in ml	1.5 2.0 1 3 5 6 7 9 15 25 50 1.1–1.4 2.6–3.4 2.7–3 4–5.5
Ø x L in mm	11 x 38 11 x 38 6 x 45 10 x 60 12 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
Cat. No.	microliter tubes Rhesus tubes²⁾ blood collection / urine vessels

	
Adapter	
boring Ø x L in mm	11.5 x 38 11.5 x 38 6.5 x 34 10.5 x 40 13.4 x 58 12.5 x 44 12.4 x 87 15 x 73 17.8 x 87 25.5 x 87 35.5 x 87 9 x 41 13.4 x 58 12.5 x 44 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

	
Vessels	
capacity in ml	4.5–5 4.9 7.5–8.5 9–10 1.6–5 4–7 4–7 8.5–10 15 50 25 30 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 19 x 115 25 x 110 25 x 115
max. RCF ²⁾	3,941 4,025 4,105 3,969 4,025 4,025 3,969 3,941 4,165 4,053 3,565 4,025 4,053
radius in mm	141 144 147 142 144 144 142 141 145 145 142 144 145
Cat. No.	blood collection / urine vessels tubes with screw cap

	
Adapter	
boring Ø x L in mm	12.4 x 87 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 87 17 x 90 30 x 90 25.5 x 72 25.5 x 85 35.5 x 87
vessels per rotor	48 32 20 20 32 32 20 24 4 4 8 4 4
Cat. No.	5230 1732 5279 5271⁴⁾ 1732 1732 5271⁴⁾ 5231 5275 5276 1731 5272 5233⁴⁾

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	10.7 x 36	11 x 38	11 x 38	6 x 45	10 x 60	12 x 75	12 x 82	12 x 100	14 x 100	17 x 100	24 x 100	34 x 100	38 x 102	44 x 100
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	146	148	144	144	144	143	143	137	136	147	144
Cat. No.	Pediatric	microliter tubes	Rhesus	tubes ²⁾										



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 40	13.4 x 48	13.4 x 48	13.4 x 48	17.6 x 91	17.6 x 91	25.2 x 87	35.2 x 87	38.5 x 92	45.6 x 98
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

Vessels

capacity in ml	1.1 – 1.4	2.7 – 5	2.7 – 5	2.6 – 4.9	2.6 – 4.9	4 – 8.5	4 – 8.5	9 – 10	10	1.6 – 5	1.6 – 5	4 – 10	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 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	4,025
radius in mm	145	144	144	144	144	145	145	143	150	144	144	144	144	144
Cat. No.	blood collection / urine vessels													



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	17.6 x 91	13.4 x 48	13.4 x 48	16.5 x 56	16.5 x 56
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

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
Cat. No.	tubes with screw cap										0534 6)



Adapter

boring Ø x L in mm	17 x 90	26 x 80	30 x 90	17 x 80	26 x 72	29.5 x 80	16.5 x 56	26 x 83	29 x 93	38.5 x 92	45.9 x 98
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

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



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

Cat. No.	tubes²⁾												cyto chambers
-----------------	---------------------------	--	--	--	--	--	--	--	--	--	--	--	----------------------



Carrier

boring Ø x L in mm	12.5 x 64.4	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 74	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

Vessels

capacity in ml	1.1 – 1.4	2.6 – 3.4	4.5 – 5	4.9	1.6 – 5	4 – 7	1.6 – 5	4 – 7	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 75	16 x 75	13 x 100	13 x 100	13 x 100	16 x 100	26 x 95
max. RCF ²⁾	2,415	2,325	2,325	2,451	2,129	2,361	2,325	2,325	2,361	2,361	2,451	2,361	2,451
radius in mm	135	130	130	137	119	132	130	130	132	132	137	132	137
temperature in °C ¹⁾	-15	-15	-15	-15	-15	-15	-15	-15	-15	-15	-15	-17	-15

Cat. No.	blood collection / urine vessels												0545
-----------------	---	--	--	--	--	--	--	--	--	--	--	--	-------------




Carrier

boring Ø x L in mm	14.6 x 78	17.6 x 78	17.6 x 78	14.6 x 78	14.6 x 78	17.6 x 74	17.6 x 78	17.6 x 78	17.6 x 74	14.6 x 74	13.5 x 78	17.6 x 74	26 x 78
vessels per rotor	40	28	28	40	40	16	28	28	16	20	28	16	8
Cat. No.	1741	1742	1742	1741	1741	1369⁴⁾	1742	1742	1369⁴⁾	1370⁴⁾	1739	1369⁴⁾	1745

CYTO

For more information about our Cyto accessory, see [page 174](#)

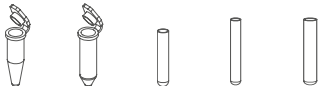
— SWING-OUT ROTOR, 4-PLACE | 1624

	
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

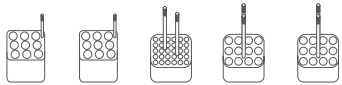


Bucket	
Cat. No.	1366




	
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⁾	1,968 1,968 1,950 1,932 1,932
radius in mm	110 110 109 108 108
Cat. No.	microliter tubes Rhesus tubes²⁾



	
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 44
vessels per rotor	36 36 120 48 48
Cat. No.	5277 5277 1357 1327 1326

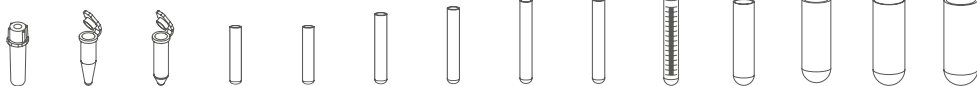
— SWING-OUT ROTOR, 4-PLACE | 1624

	
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

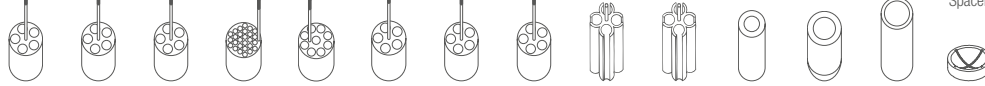


Bucket	
Lid bioseal ⁵⁾	1492
Cat. No.	1481




	
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	10,7 x 36 11 x 38 11 x 38 6 x 45 10 x 60 12 x 75 12 x 82 12 x 100 14 x 100 17 x 100 24 x 100 34 x 100 38 x 102 44 x 100
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	133 137 137 145 147 143 143 143 142 142 136 135 146 143
Cat. No.	Pediatric microliter tubes Rhesus tubes²⁾



	
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 48 13.4 x 48 13.4 x 48 17.6 x 91 17.6 x 91 25.2 x 87 35.2 x 87 38.5 x 92 45.9 x 98
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

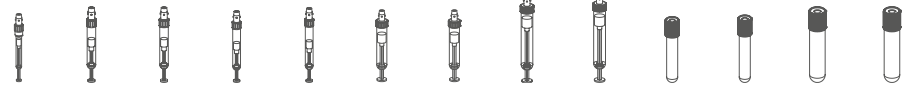
Spacer


SWING-OUT ROTOR, 4-PLACE | 1624

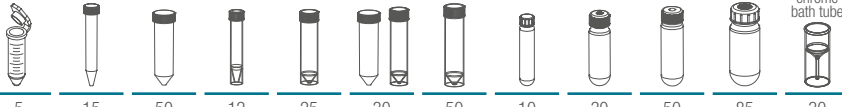
	
Rotor	
max. RPM max. RCF	4,000 min ⁻¹ 2,665
max. capacity	4 x 100 ml
run-up run-down, braked in sec	20 25
angle max. noise level	90° 58 dB (A)
temperature in °C	-15
Cat. No.	1624

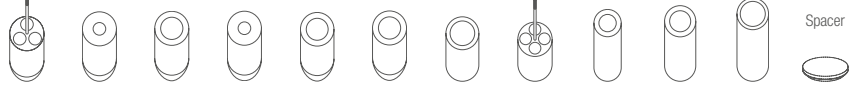
	
Bucket	
Lid bioseal ⁵⁾	1492
Cat. No.	1481



	
Vessels	
capacity in ml	1.1–1.4 2.7–5 2.7–5 2.6–4.9 2.6–4.9 4–8.5 4–8.5 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 00 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
Cat. No.	blood collection / urine vessels

	
Adapter	
boring Ø x L in mm	9x47 13.4x48 13.4x48 13.4x48 13.4x48 15.6x47 15.6x47 17.6x91 17.6x91 13.4x48 13.4x48 16.5x56 16.5x56
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

	
Vessels	
capacity in ml	5 15 50 12 25 30 50 10 30 50 85 30
Ø x L in mm	17 x 59 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 2,665 2,343 2,665 2,665 2,522 2,451 2,630 2,612 2,540
radius in mm	149 149 149 149 131 149 149 141 137 147 146 142
Cat. No.	- tubes with screw cap 0534 ⁶⁾

	
Adapter	
boring Ø x L in mm	17 x 45 17 x 90 30 x 90 17 x 80 26 x 72 26 x 80 29.5 x 80 16.5 x 56 26 x 83 29 x 93 38.5 x 92 45.9 x 98
vessels per rotor	12 4 4 4 4 4 4 16 4 4 4 4
Cat. No.	6341 1347 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 3,328
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 [®]	1492
Cat. No.	1490



Vessels

capacity in ml	0,5	1,5	2,0	1	3	4	5	6	7	9	15	25	50	94	100
Ø x L in mm	10.7x36	11x38	11x38	6x45	10x60	10x88	12x75	12x82	12x100	14x100	17x100	24x100	34x100	38x102	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
Cat. No.	Pediatric	microliter tubes	Rhesus	tubes²⁾											



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	Spacer
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

capacity in ml	1.1–1.4	2.6–3.4	4.9	2.7–3	4.5–5	4–5.5	7.5–8.5	9–10	10	1.6–5	4–7	4–7	8.5–10	5	15	
Ø x L in mm	8 x 66	13x65	13x90	11x66	11x92	15x75	15x92	16x92	15x102	13x75	13x100	16x75	16x100	17x59	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	3,328	
radius in mm	142	141	141	141	141	142	142	140	147	141	141	139	139	147	147	
Cat. No.	blood collection / urine vessels														-	-



Adapter

boring Ø x L in mm	9x47	13.4x48	13.4x48	13.4x48	13.4x48	15.6x47	15.6x47	17.6x91	17.6x91	13.4x48	13.4x48	16.5x56	16.5x56	17x45	17x90	
vessels per rotor	28	20	20	20	20	16	16	16	16	20	20	16	16	12	4	
Cat. No.	1457	1383	1383	1383	1383	1459	1459	1329	1329⁴⁾	1383	1383	1348	1348	6341	1347	

Vessels

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	44x105				
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				
Cat. No.	tubes with screw cap												- 6)			



Adapter

boring Ø x L in mm	17x107	26x80	30x90	17x80	26x72	26x80	29.5x80	16.5x56	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

capacity in ml	5	6	7	9	12	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	14x100	17x102	17x100	13x65	11x66	15x75	11x92	13x90	16x92	15x102	13x75	13x100
max. RCF ²⁾	3,147	3,147	3,147	3,192	3,102	3,192	3,147	3,147	2,875	3,147	3,147	3,192	3,192	3,147	3,147
radius in mm	139	139	139	141	137	141	139	139	127	139	139	141	141	139	139
Cat. No.	Tubes²⁾						blood collection / urine vessels								



Adapter

boring Ø x L in mm	13.4x57.5	13.4x57.5	13.4x57.5	17.5x81	17.5x74	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	12	16	20	20	16	20	20	16	16	20	20
Cat. No.	1486	1486	1486	1482A	1487	1482A	1486	1486	1482A	1486	1486	1482A	1482A	1486	1486

Vessels

capacity in ml	4–7	8.5–10	15	50	12	50
Ø x L in mm	16x75	16x100	17 x 120	29 x 115	17 x 100	29 x 115
max. RCF ²⁾	3,034	3,034	3,305	3,260	3,192	3,260
radius in mm	134	134	146	144	141	144
Cat. No.	blood collection / urine vessels		tubes with screw cap			



Adapter

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

— 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

capacity in ml	5	6	7	10	15	2.6 – 3.4	2.7 – 3	4 – 5.5	4.5 – 5	7.5 – 8.5	1.6 – 5	4 – 7	4 – 7	8.5 – 10
Ø x L in mm	12 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	16 x 100
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
Cat. No.	tubes ²⁾					blood collection / urine vessels								



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	17.5 x 81
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 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

capacity in ml	5	15	2.6 – 3.4	2.7 – 3	4 – 5.5	7.5 – 8.5	1.6 – 5	4 – 7	8.5 – 10
Ø x L in mm	12 x 75	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⁾	3,494	4,193	3,494	3,494	3,522	4,193	3,494	3,522	4,193
radius in mm	125	150	125	125	126	150	125	126	150
temperature in °C ¹⁾	-15	-10	-15	-15	-15	-10	-15	-15	-10
Cat. No.	tubes ²⁾		blood collection / urine vessels						



Bucket

boring Ø x L in mm	13.2 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
Cat. No.	1127-A	1621	1127-A	1127-A	1122	1621	1127-A	1122	1621

— 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	

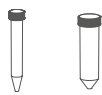
Cat. No. 1617



Vessels

capacity in ml	15	50
Ø x L in mm	17 x 120	29 x 115
max. RCF ²⁾	3,857	3,857
radius in mm	138	138

Cat. No. tubes with screw cap



Adapter

boring Ø x L in mm	17 x 84	30 x 94.5
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	

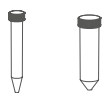
Cat. No. 1619



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

Cat. No. tubes with screw cap



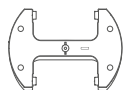
Adapter

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, 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



Vessels

capacity in ml	-	-	-	-	-	-	-	-	0,2
W x D x H in mm	128x86x15	128x86x17.5	128x86x22	128x86x44.5	128x86x46	128x86x83	84x59x11	124x82x20	-
max. RCF ²⁾	2,218	2,218	2,218	2,218	2,218	2,218	2,218	2,218	2,218
radius in mm	124	124	124	124	124	124	124	124	124
Cat. No.	MTP	MTP	CP	DWP	MS	QP	Microtest plates	PCR plate, 96 wells	PCR strips



Bucket

boring Ø x L in mm	-	-	-	-	-	-	-	-	-
vessels per rotor	10	8	6	2	2	2	4	2	24 x 8
Cat. No.	1453-A	1453-A	1453-A	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	24 x 2 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



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
Cat. No.	microliter tubes					



Adapter

boring Ø x L in mm	6x40	6x40	8x40	8x40	-	11.5x38.5
vessels per rotor	24	24	24	24	24	24
Cat. No.	2024	2024	2023	2023	2031⁷⁾	-

— ANGLE ROTOR, 24-PLACE | 1552



Rotor

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

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



INCLUSIVE



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 36
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
Cat. No.	microliter tubes						Pediatric



Adapter

boring Ø x L in mm	6 x 40	6 x 40	8 x 40	8 x 40	10.2 x 19	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⁾	-	0788¹⁷⁾

— ANGLE ROTOR, 30-PLACE | 1553



Rotor

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

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



INCLUSIVE



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 36
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
Cat. No.	microliter tubes						Pediatric



Adapter

boring Ø x L in mm	6 x 40	6 x 40	8 x 40	8 x 40	10.2 x 19	11.2 x 40.9	11.2 x 39
vessels per rotor	30	30	30	30	30	30	15
Cat. No.	2024	2024	2023	2023	2031⁷⁾	-	0788¹⁷⁾

All footnotes in the catalog can be found on the last page.

— 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



Vessels



capacity in ml	0.2	0.2
Ø x L in mm	6 x 18	-
max. RCF ²⁾	13,604	13,604
radius in mm	72	72
Cat. No.	-	PCR-Strips

— ANGLE ROTOR, 18-PLACE | 1627



Rotor

max. RPM max. RCF	14,150 min ⁻¹ 22,161
max. capacity	18 x 5 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	17 x 59
max. RCF ²⁾	22,161
radius in mm	99
Cat. No.	-

— 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



Vessels

capacity in ml	1,5	2	15	50	50	85	7.5–8.5	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
Cat. No.	microliter tubes			tubes²⁾			blood collection / urine vessels				tubes with screw cap				



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

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
Cat. No.	tubes with screw cap	



Adapter

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

— 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



Vessels

capacity in ml	0.5	1.5	2.0	4	5	6	15	1.1 – 1.4	2.6 – 3.4	2.7 – 3	4.5 – 5	4.9	7.5 – 8.5	9 – 10	10
Ø x L in mm	10.7 x 36	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 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
Cat. No.	Pediatric	microliter tubes		tubes ²⁾				blood collection / urine vessels							



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	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	-	-	-	-	-

Vessels

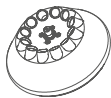
capacity in ml	1.6 – 5	4 – 7	8	8.5 – 10	5	15
Ø x L in mm	13 x 75	13 x 100	16 x 125	16 x 100	17 x 59	17 x 120
max. RCF ²⁾	3,300	4,146	4,146	4,146	3,180	4,146
radius in mm	82	103	103	103	79	103
Cat. No.	blood collection / urine vessels			-	-	-



Adapter

boring Ø x L in mm	13.5 x 60	13.5 x 79	17.7 x 88	17.7 x 88	17 x 25	17.7 x 88
vessels per rotor	12	12	6	12	12	6
Cat. No.	1054-A	1058	-	-	1064	-

— 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



Vessels

capacity in ml	0.5	1.5	2.0	4	5	6	15	1.1 - 1.4	2.6 - 3.4	2.7 - 3	4.5 - 5	4.9	7.5 - 10	10
Ø x L in mm	10.7 x 36	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
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
Cat. No.	Pediatric	microliter tubes		tubes ²⁾				blood collection / urine vessels						



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	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
Cat. No.	2 x 1063-6 (6 pcs.)			6305	1054-A	1054-A	-	1054-A	1054-A	1054-A	-	-	-	-

Vessels

capacity in ml	1.6 - 5	4 - 7	8 - 10	8 - 10	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
Cat. No.	blood collection / urine vessels			-	-	-



Adapter

boring Ø x L in mm	13.5 x 60	13.5 x 79	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	1058	-	-	1064	1647 ^{2b)}

— 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⁾	-11
Cat. No.	1418



Vessels

capacity in ml	5	15	1.1-1.4	2.6-3.4	2.7-3	9-10	1.6-5	4-7	8.5-10	12	15	50	12	50	50
Ø x L in mm	12x75	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	3,305	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

Cat. No.

tubes ²⁾	blood collection / urine vessels						tubes with screw cap					
---------------------	----------------------------------	--	--	--	--	--	----------------------	--	--	--	--	--



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



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 bench top 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).

— FIELDS OF APPLICATION

- Hospitals
- Hematological labs
- Small blood centers
- Veterinary labs
- Pharmaceutical companies
- Food analyzing labs
- University / Academic Research
- Forensic labs
- Paternity testing labs
- Environmental testing labs
- Cell culture labs



according to directive 98/79/EC

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	84
 swing-out rotor, 4-place	90°	4,000 min ⁻¹	4x290 ml	1798	86
 swing-out rotor, 6-place	90°	4,000 min ⁻¹	6x50 ml	1726	88
 swing-out rotor, 2-place	90°	4,000 min ⁻¹	10 plates	1760	90
 swing-out rotor, 2-place	90°	5,100 min ⁻¹	12 plates	1770	90


ANGLE ROTORS

 angle rotor, 6-place	45°	10,000 l 11,000 min ⁻¹	6x94 ml	1720	91
 angle rotor, 6-place inclusive lid, bioseal	45°	10,000 l 11,000 min ⁻¹	6x94 ml	1792	92
 angle rotor, 30-place	45°	15,000 min ⁻¹	30x2 ml	1789-A	93

CYTO


Cyto system available for this model.
More information on [page 174](#)

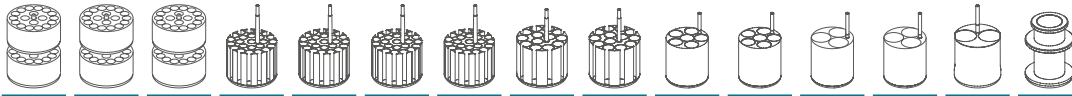
SWING-OUT ROTOR, 4-PLACE | 1754


	
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

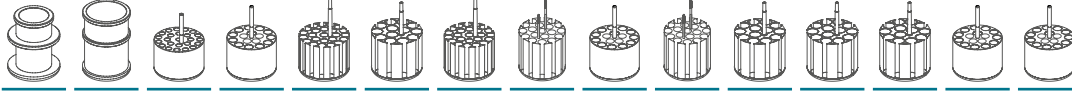
	
Bucket	
lid bioseal ⁵⁾	1751
Cat. No.	1752



	
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	11 x 38 11 x 38 10 x 60 12 x 60 12 x 75 12 x 82 12 x 100 14 x 100 17 x 100 21 x 100 24 x 100 31 x 100 34 x 100 38 x 102 40 x 115
max. RCF ²⁾	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	125 / 171 125 / 171 171 167 167 167 167 167 167 167 167 167 167 172 166
Cat. No.	microliter tubes tubes ²⁾

	
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 41x97
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

	
Vessels	
capacity in ml	100 250 1.1-1.4 2.6-3.4 2.7-3 4-5.5 4.5-5 4.5-5 4.9 4.9 7.5-8.5 9-10 10 1.6-5 4-7
Ø x L in mm	44 x 100 65 x 115 8 x 66 13 x 65 11 x 66 15 x 75 11 x 92 11 x 92 13 x 90 13 x 90 15 x 92 16 x 92 15 x 102 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
Cat. No.	tubes ²⁾ blood collection tubes / urine tubes

	
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

SWING-OUT ROTOR, 4-PLACE | 1754

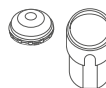
Rotor

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	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
Cat. No.	blood collection tubes / urine tubes				-	tubes with screw cap									

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

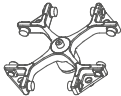
Vessels

capacity in ml	50	85	94	175	175	200	225	250	290
Ø x L in mm	29x107	38x106	38x102	61 x 118	62 x 144	60 x 130	61 x 137	61 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
Cat. No.	tubes with screw cap			Falcon	Nalgene	Nunc®	Falcon	0527²⁴⁾	-²⁴⁾

Adapter

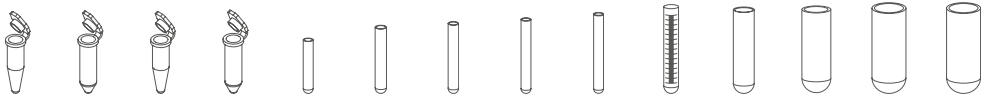
boring Ø x L in mm	30 x 80	38.5 x 80	38.5 x 80	62 x 111	62 x 111	62 x 111	62 x 111	62 x 100	62 x 100
vessels per rotor	16	8	8	4	4	4	4	4	4
Cat. No.	1774-A	1777	1777	1782	1778	1778	1782	1769	1769

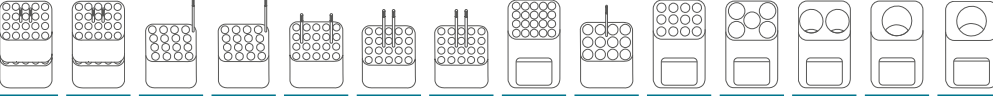
SWING-OUT ROTOR, 4-PLACE | 1798


	
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

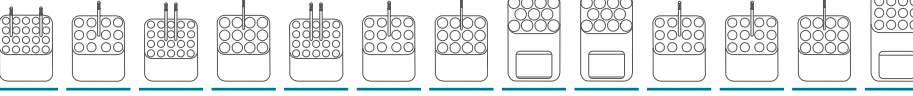
	
Bucket	
lid	5053
Cat. No.	5051

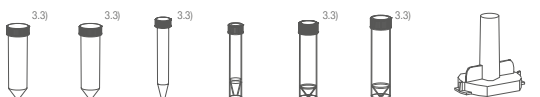


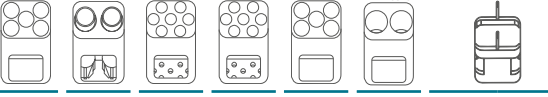
	
Vessels	
capacity in ml	1.5 2 1.5 2 3 5 6 7 9 15 25 50 100 100
Ø x L in mm	11 x 38 11 x 38 11 x 38 11 x 38 10 x 60 12 x 75 12 x 82 12 x 100 14 x 100 17 x 100 24 x 100 34 x 100 40 x 115 44 x 100
max. RCF ²⁾	1,950 / 2,826 1,950 / 2,826 2,826 2,826 2,737 2,773 2,773 2,755 2,773 2,755 2,755 2,755 2,755 2,755
radius in mm	109 / 158 109 / 158 158 158 153 155 155 154 155 154 154 154 154 154
Cat. No.	microliter tubes tubes 2)

	
Adapter	
boring Ø x L in mm	12.5 x 42 12.5 x 42 11.5 x 50 11.5 x 50 11 x 44 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 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 5247 ¹⁵⁾ 5264 5248 ¹⁵⁾ 5242 5243 5249 5262

	
Vessels	
capacity in ml	1.1–1.4 2.6–3.4 2.7–3 4–5.5 4.5–5 4.9 7.5–8.5 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⁾	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
Cat. No.	blood collection tubes / urine tubes

	
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	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	
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
Cat. No.	tubes with screw cap cyto chambers

	
Adapter	
boring Ø x L in mm	26 x 86 30 x 86 17 x 90 17 x 90 26 x 86 36 x 86 -
vessels per rotor	20 8 28 28 20 8 8
Cat. No.	5266 5259 6306 6306 5266 5243 5280

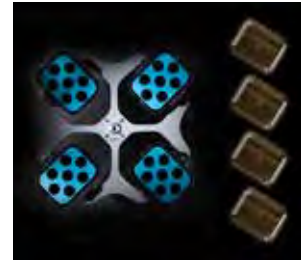
CYTO Cyto system available for this model.
More information on [page 174](#)

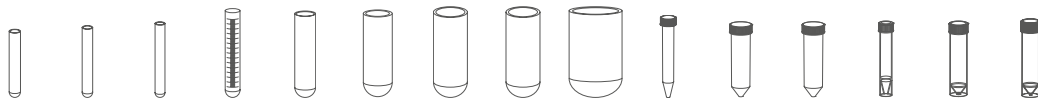
All footnotes in the catalog can be found on the last page.

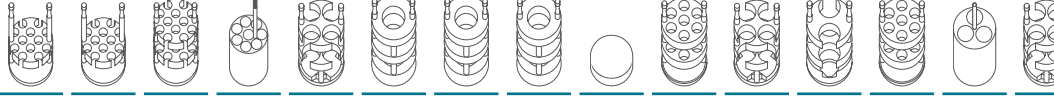
SWING-OUT ROTOR, 4-PLACE | 1798


	
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

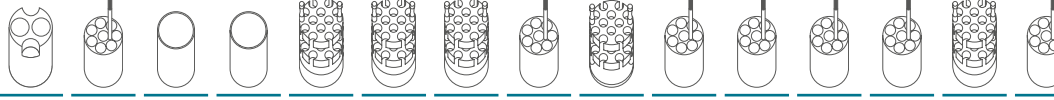
	
Bucket	
lid bioseal ⁵⁾	5093
Cat. No.	5092

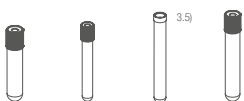


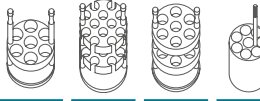
	
Vessels	
capacity in ml	5 6 7 15 25 50 100 100 250 15 30 50 12 25 30
Ø x L in mm	12x75 12x82 12x100 17x100 24x100 34x100 44x100 40x115 65x115 17x120 25x110 29x115 17x100 25x90 25x110
max. RCF ²⁾	3,005 3,005 3,005 2,952 2,898 2,952 2,952 2,952 3,095 3,095 2,898 3,095 3,005 2,826 2,898
radius in mm	168 168 168 165 162 165 165 165 173 173 162 173 168 158 162
Cat. No.	tubes²⁾ tubes with screw cap

	
Adapter	
boring Ø x L in mm	12.8x45 12.8x45 12.8x82 17.5x60.7 25.5x82 35.5x85 45.5x85 42x85 66x103 17x85 25.5x82 30x85 17.5x82 26x73 25.5x82
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

	
Vessels	
capacity in ml	50 10 250 290 1.1-1.4 2.6-3.4 2.7-3 4-5.5 4.5-5 4.9 7.5-8.5 9-10 10 1.6-5 4-7
Ø x L in mm	29x115 16x80 61x122 62x137 8x66 13x65 11x66 15x75 11x92 13x90 15x92 16x92 15x102 13x75 16x75
max. RCF ²⁾	3,023 2,952 3,095 3,095 2,540 2,540 2,540 2,952 3,005 2,952 2,952 2,952 2,952 2,540 2,952
radius in mm	169 165 173 173 142 142 142 165 168 165 165 165 165 142 165
Cat. No.	tubes with screw cap 5127²⁴⁾ - 24) blood collection tubes / urine tubes

	
Adapter	
boring Ø x L in mm	30x99 17.5x60.7 66x103 66x103 13x54.5 13x54.5 13x54.5 17.5x60.7 12.8x82 13.5x60.7 17.5x60.7 17.5x60.7 17.5x60.7 13x54.5 17.5x60.7
vessels per rotor	8 32 4 4 48 48 48 32 48 32 32 32 32 48 32
Cat. No.	5135 5136 6319 6319 5138 5138 5138 5136 5120 5137 5136 5136 5136 5138 5136

	
Vessels	
capacity in ml	4-7 4-7 8 8.5-10
Ø x L in mm	16x75 13x100 16x125 16x100
max. RCF ²⁾	3,005 3,005 3,059 2,952
radius in mm	168 168 171 165
Cat. No.	blood collection / urine tubes

	
Adapter	
boring Ø x L in mm	17.5x52 12.8x82 17.5x82 17.5x60.7
vessels per rotor	28 48 28 32
Cat. No.	5121-93 5120 5121⁴⁾ 5136

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	90°
temperature in °C ¹⁾	-6
Cat. No.	1726



Vessels

capacity in ml	5	5	6	7	9	15	20	25	45	50	8.5 x 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
Cat. No.	tubes²⁾											-	cyto chambers



Carrier

boring Ø x L in mm	12.5x64.4	13.5x65	12.5x71.5	12.5x71.5	14.6x74	17.6x74	21.5x74	26x78	32x74	35x78	17.6x74	26x78	-
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

For more information about our Cyto accessory, see [page 174](#)

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
-----------------	-------------



Vessels

capacity in ml	15	2.6–3.4	4–5.5	7.5–8.5	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
Cat. No.	-²⁾	blood collection tubes / urine tubes							-	





Adapter

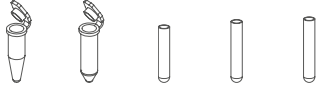
boring Ø x L in mm	17.6 x 78	17.6 x 78	17.6 x 78	17.6 x 78	17.6 x 78	17.6 x 78	17.6 x 78	17.6 x 78	17.6 x 78	17.6 x 78
vessels per rotor	42	42	42	42	42	18	42	42	42	18
Cat. No.	-	0716	0716	-	-	-	0716	0716	-	-


All footnotes in the catalog can be found on the last page.

— SWING-OUT ROTOR, 6-PLACE | 1726



			
Rotor		Bucket	
max. RPM max. RCF	4,000 min ⁻¹ 2,325	Cat. No.	1366
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		



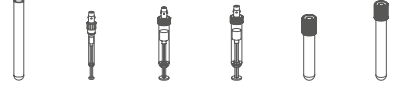
	
Vessels	
capacity in ml	1.5 2.0 1 3 4
Ø x L in mm	11 x 38 11 x 38 6 x 45 10 x 60 12 x 60
max. RCF ²⁾	2,325 2,325 2,308 2,290 2,290
radius in mm	130 130 129 128 128
Cat. No.	microliter tubes Rhesus tubes ²¹⁾


	
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 44
vessels per rotor	54 54 180 72 72
Cat. No.	5277 5277 1357 1327 1326

— SWING-OUT ROTOR, 6-PLACE | 1726

			
Rotor		Carrier	
max. RPM max. RCF	4,000 min ⁻¹ 2,808	Cat. No.	1741
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		



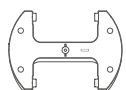
	
Vessels	
capacity in ml	9 1.1 – 1.4 4.5 – 5 4.9 1.6 – 5 4 – 7
Ø x L in mm	14 x 100 8 x 66 11 x 92 13 x 90 13 x 75 13 x 100
max. RCF ²⁾	2,773 2,773 2,808 2,808 2,486 2,808
radius in mm	155 155 157 157 139 157
Cat. No.	- ²⁾ blood collection tubes / urine tubes

	
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 14.6 x 78
vessels per rotor	60 60 36 60 60 60
Cat. No.	0701 0701 - - 6x0768 ¹⁶⁾ -

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



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
Cat. No.	MTP	MTP	CP	DWP	MS	QP	Microtest plates	PCR plate	PCR strips



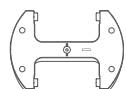
Bucket

boring Ø x L in mm	-	-	-	-	-	-	-	-	-
plates / strips per rotor	10	8	6	2	2	2	4	2	24 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

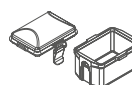
Rotor

max. RPM max. RCF	5,100 min ⁻¹ 3,926
capacity in ml	12 plates
run-up run-down, braked in sec	65 30
angle	90°
temperature in °C ¹⁾	-3
Cat. No.	1770



Bucket

lid bioseal ³⁾	4627
Cat. No.	4745



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
Cat. No.	MTP	MTP	CP	DWP	MS	QP	Microtest plates	PCR plate	PCR strips



Removal frame

boring Ø x L in mm	-	-	-	-	-	-	-	-	-
plates / strips per rotor	12	10	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

capacity in ml		1.5	2.0	15	25	50	94	7.5 – 8.5	9 – 10	8.5 – 10	5	15	50	10	30	50
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 59	17 x 120	29 x 115	16 x 80	26 x 95	29 x 107
max. RCF ²⁾	ROTINA 380	12,969	12,969	12,745	12,410	13,304	13,528	12,745	12,745	12,745	12,857	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	15,557	15,828	15,422	15,016	15,016	15,692
radius in mm		116	116	114	111	119	121	114	114	114	115	117	114	111	111	116
Cat. No.		microliter tubes			tubes ²⁾			blood collection tubes / urine tubes			-	tubes with screw cap				



Adapter

boring Ø x L in mm	11.4 x 39	11.4 x 39	17.5 x 92	26 x 85	35 x 89	38.4 x 89	17.5 x 92	17.5 x 92	17.5 x 92	17 x 51	17 x 106	29.8 x 97	16.5 x 74	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	1451	1447	1463	-	1451	1451	1451	1476	1466	1454	1448	1447	1446

Vessels


capacity in ml	85	94
Ø x L in mm	38 x 106	38 x 102
max. RCF ²⁾	ROTINA 380	13,528
max. RCF ²⁾	ROTINA 380 R	16,369
radius in mm	121	121
Cat. No.	tubes with screw cap	



Adapter

boring Ø x L in mm	38.4 x 89	38.4 x 89
vessels per rotor	6	6
Cat. No.	-	-
















ANGLE ROTOR, 6-PLACE | 1792
















		
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



lid bioseal ²⁾


Cat. No.

INCLUSIVE



																
Vessels																
capacity in ml		1.5	2.0	15	25	50	94	7.5-8.5	9-10	10	8.5-10	5	15	50	10	30
Ø x L in mm		11x38	11x38	17x100	24x100	34x100	38x102	15x92	16x92	15x102	16x100	17x59	17x120	29x115	16x80	26x95
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
Cat. No.		microliter tubes			tubes ²⁾			blood collection tubes / urine tubes				-	tubes with screw cap			

																
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

			
Vessels			
capacity in ml		50	85
Ø x L in mm		29x107	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
Cat. No.		tubes with screw cap	

		
Adapter		
boring Ø x L in mm		29x92
vessels per rotor		6
Cat. No.		1446

— 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

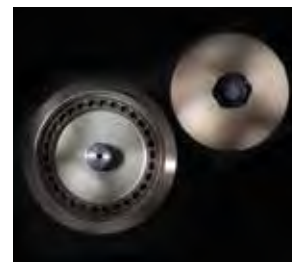



Lid bioseal[®],
phenol-resistant

Cat. No.

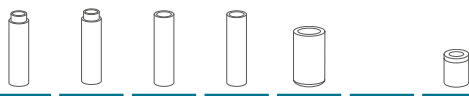


INCLUDED



	
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 36
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
Cat. No.	microliter tubes Pediatric



	
Adapter	
boring Ø x L in mm	6 x 40 6 x 40 8 x 40 8 x 40 - 11.2 x 40.9 11.2 x 40.9
vessels per rotor	30 30 30 30 30 30 15
Cat. No.	2024 2024 2023 2023 2031⁷⁾ - 0788¹⁷⁾

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).

— FIELDS OF APPLICATION

- Hospitals
- Hematological labs
- Blood centers
- Veterinary labs
- Pharmaceutical labs
- Food analyzing labs
- University / Academic Research




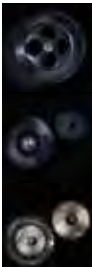
according to directive 98/79/EC

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)	506x650x423 mm	713x654x423 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.

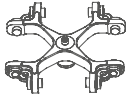
AVAILABLE ROTORS

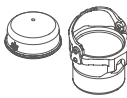

SWING-OUT ROTORS		angle	max. RPM	max. capacity	Cat. No.	page
	swing-out rotor, 4-place	90°	4,800 min ⁻¹	4x600 ml	4784-A	96
	swing-out rotor, 4-place	90°	4,000 min ⁻¹	4x290 ml	4753	98
ANGLE ROTORS						
	angle rotor, 4-place	25°	9,500 min ⁻¹	4x250 ml	4795	100
	angle rotor, 6-place	45°	11,000 min ⁻¹	6x94 ml	4794	101
	angle rotor, 30-place	45°	15,000 min ⁻¹	30x2 ml	4790-A	101

CYTO

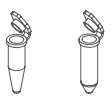
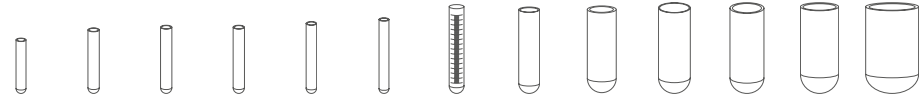
Cyto system available for this model.
More information on [page 174](#)

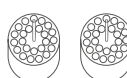

SWING-OUT ROTOR, 4-PLACE | 4784-A

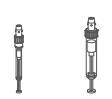

	
Rotor	
max. RPM max. RCF	4,800 min ⁻¹ 4,740
max. capacity	4 x 600 ml
run-up run-down, braked in sec	54 38
angle max. noise level	90° 56 dB (A)
temperature in °C ¹⁾	+4
Cat. No.	4784-A

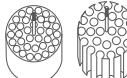

	
Bucket	
lid bioseal ⁹⁾	4783
Cat. No.	4780
	
Bucket without clamp lock ¹⁴⁾	
Cat. No.	4785



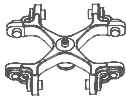
															
Vessels															
capacity in ml	1.5	2.0	3	4	4	5	6	7	15	25	50	94	100	100	250
Ø x L in mm	11 x 38	11 x 38	10 x 60	10 x 88	12 x 60	12 x 75	12 x 82	12 x 100	17 x 100	24 x 100	34 x 100	38 x 102	40 x 115	44 x 100	65 x 115
max. RCF ²⁾	4,585	4,585	4,585	4,585	4,585	4,585	4,585	4,585	4,585	4,585	4,559	4,559	4,559	4,534	4,534
radius in mm	178	178	178	178	178	178	178	178	178	178	177	177	177	176	176
Cat. No.	microliter tubes			tubes ²⁾											

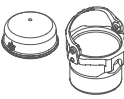

															
Adapter															
boring Ø x L in mm	11.2 x 38	11.2 x 38	11.2 x 54	11.2 x 54	13.4 x 55	13.4 x 55	13.4 x 55	13.4 x 55	17.5 x 62	26.5 x 69	36 x 77	42 x 76.5	42 x 76.5	46 x 76.5	66 x 97
vessels per rotor	96	96	140	140	104	104	104	104	72	28	16	12	12	8	4
Cat. No.	4773	4773	4761	4761	4762	4762	4762	4762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

															
Vessels															
capacity in ml	1.1–1.4	2.6–3.4	2.7–3	4–5.5	4.5–5	4.9	7.5–8.5	9–10	1.6–7	1.6–7	4–7	8	8.5–10	5	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	13 x 100	16 x 75	16 x 125	16 x 100	17 x 59	17 x 120
max. RCF ²⁾	4,585	4,585	4,585	4,585	4,585	4,585	4,585	4,585	4,585	4,585	4,585	4,585	4,585	4,740	4,740
radius in mm	178	178	178	178	178	178	178	178	178	178	178	178	178	184	184
Cat. No.	blood collection / urine vessels													-	-


															
Adapter															
boring Ø x L in mm	11.2 x 54	13.4 x 55	11.2 x 54	17.5 x 62	11.2 x 54	13.4 x 55	17.5 x 62	17.5 x 62	13.4 x 55	13.7 x 55	17.5 x 62	17.5 x 62	17.5 x 62	17 x 52	17 x 84
vessels per rotor	140	104	140	72	140	104	72	72	104	84	72	24	72	48	52
Cat. No.	4761	4762	4761	4763	4761	4762	4763	4763	4762	4775	4763	4763	4763	4778	4769

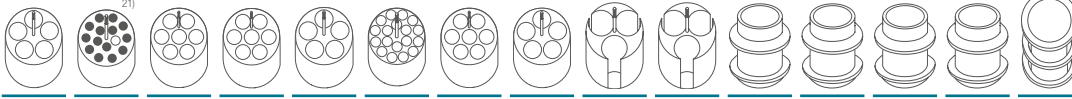
SWING-OUT ROTOR, 4-PLACE | 4784-A


	
Rotor	
max. RPM max. RCF	4,800 min ⁻¹ 4,740
max. capacity	4 x 600 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	
lid bioseal ⁵⁾	4783
Cat. No.	4780
	
Bucket without clamp lock ¹⁴⁾	
Cat. No.	4785




	
Vessels	
capacity in ml	50 12 25 30 50 10 30 50 85 94 175 175 200 225 250
Ø x L in mm	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 38 x 102 61 x 118 62 x 144 60 x 130 61 x 137 61 x 122
max. RCF ²⁾	4,688 4,688 4,585 4,585 4,688 4,585 4,585 4,688 4,534 4,534 4,740 4,740 4,740 4,740 4,740
radius in mm	182 182 178 178 182 178 178 182 176 176 184 184 184 184 184
Cat. No.	tubes with screw cap Falcon Nalgene Nunc® Falcon 5127 ²⁴⁾

	
Adapter	
boring Ø x L in mm	30 x 82.5 17.2 x 82.5 ²¹⁾ 26.5 x 69 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
vessels per rotor	20 56 28 28 20 72 28 20 12 12 4 4 4 4 4
Cat. No.	4770 4774 4764 4764 4770 ⁴⁾ 4763 4764 4770 ⁴⁾ 4766 4766 4776 4777 4777 4776 4771

	
Vessels	
capacity in ml	290 400 400 600
Ø x L in mm	62 x 137 81 x 136 84 x 134 93 x 134
max. RCF ²⁾	4,740 4,740 4,740 4,740
radius in mm	184 184 184 184
Cat. No.	- ²⁴⁾ - ²⁴⁾ - ²⁴⁾ 0551 ²⁴⁾

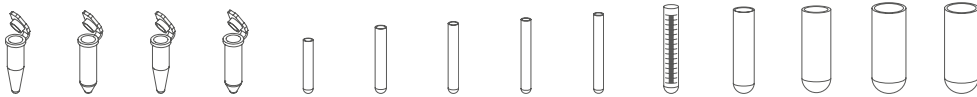
	
Adapter	
boring Ø x L in mm	62 x 100 85 x 100 85 x 100 94 x 99
vessels per rotor	4 4 4 4
Cat. No.	4771 4772 4772 -

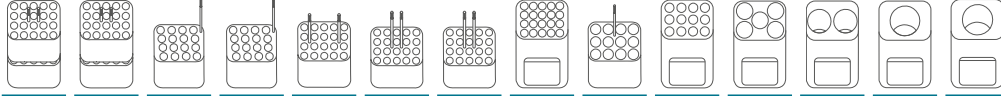
SWING-OUT ROTOR, 4-PLACE | 4753


	
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

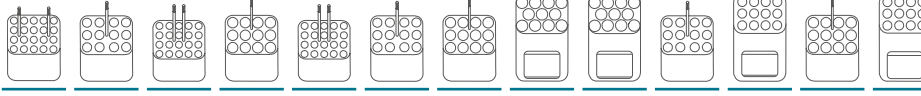
	
Bucket	
lid	5053
Cat. No.	5051




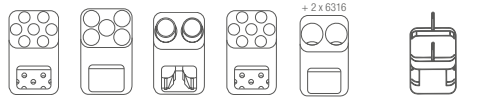
	
Vessels	
capacity in ml	1.5 2 1.5 2 3 5 6 7 9 15 25 50 100 100
Ø x L in mm	11 x 38 11 x 38 11 x 38 11 x 38 10 x 60 12 x 75 12 x 82 12 x 100 14 x 100 17 x 100 24 x 100 34 x 100 44 x 100 40 x 115
max. RCF ²⁾	top / bottom 1,950 / 2,826 1,950 / 2,826 2,826 2,826 2,737 2,773 2,773 2,755 2,773 2,755 2,755 2,755 2,755 2,755
radius in mm	top / bottom 109 / 158 109 / 158 158 158 153 155 155 154 155 154 154 154 154 154
Cat. No.	microliter tubes tubes ³⁾

	
Adapter	
boring Ø x L in mm	12.5 x 42 12.5 x 42 11.5 x 50 11.5 x 50 11 x 44 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	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

	
Vessels	
capacity in ml	1.1–1.4 2.6–3.4 2.7–3 4–5.5 4.5–5 4.9 7.5–8.5 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⁾	2,737 2,808 2,773 2,773 2,773 2,808 2,773 2,755 2,755 2,808 2,755 2,773 2,755
radius in mm	153 157 155 155 155 157 155 154 154 157 154 155 154
Cat. No.	blood collection / urine vessels

	
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 86 16 x 50 17.5 x 86
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 6301 5264 5248


	
Vessels	
capacity in ml	15 30 50 12 50 1–8
Ø x L in mm	17 x 120 25 x 110 29 x 115 17 x 100 29 x 115 simple / multiple
max. RCF ²⁾	2,898 2,755 2,826 2,898 2,755 1,735 / 2,737
radius in mm	162 154 158 162 154 97 / 153
Cat. No.	tubes with screw cap cyto chambers

	
Adapter	
boring Ø x L in mm	17 x 90 26 x 66 30 x 86 17 x 90 36 x 86 -
vessels per rotor	28 20 8 28 8 8
Cat. No.	6306 5266 5259 6306 5243 5280

CYTO Cyto system available for this model.
More information on page 174

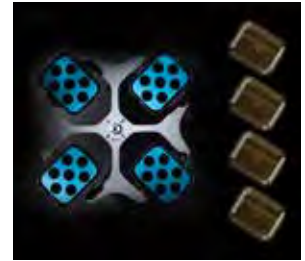
All footnotes in the catalog can be found on the last page.

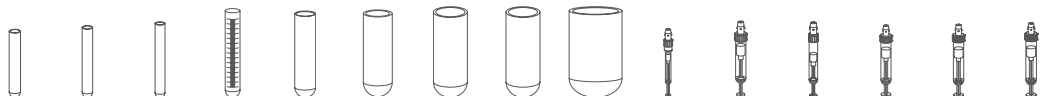
SWING-OUT ROTOR, 4-PLACE | 4753

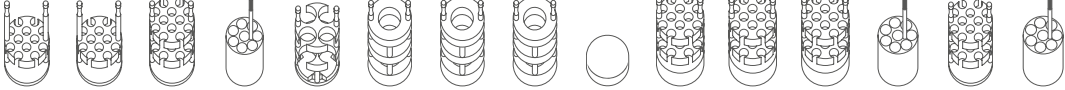
	
Rotor	
max. RPM max. RCF	4,000 min ⁻¹ 3,095
max. capacity	4 x 290 ml
run-up run-down, braked in sec	18 16
angle max. noise level	90° 58 dB (A)
temperature in °C ¹⁾	-1
Cat. No.	4753





	
Bucket	
lid bioseal ⁵⁾	5093
Cat. No.	5092

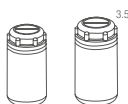



	
Vessels	
capacity in ml	5 6 7 15 25 50 100 100 250 1.1–1.4 2.6–3.4 2.7–3 4–5.5 4.5–5 4.9
Ø x L in mm	12x75 12x82 12x100 17x100 24x100 34x100 44x100 40x115 65x115 8 x 66 13 x 65 11 x 66 15x75 11x92 13x90
max. RCF ²⁾	3,005 3,005 3,005 2,952 2,898 2,952 2,952 2,952 3,095 2,540 2,540 2,540 2,952 3,005 2,952
radius in mm	168 168 168 165 162 165 165 165 173 142 142 142 165 168 165
Cat. No.	tubes²⁾ blood collection / urine vessels

	
Adapter	
boring Ø x L in mm	12.8x45 12.8x45 12.8x82 17.5x60.7 25.5x82 35.5x82.5 45.5x85 42x85 66x103 13x54.5 13x54.5 13x54.5 17.5x60.7 12.8x82 13.5x60.7
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

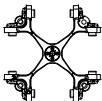
	
Vessels	
capacity in ml	7.5–8.5 9–10 10 1.6–5 4–7 4–7 8.5–10 8 15 50 12 25 30 50 10
Ø x L in mm	15x92 16x92 15x102 13x75 13x100 16x75 16x100 16x125 17x120 29x115 17x100 25x90 25x110 29x115 16 x 80
max. RCF ²⁾	2,952 2,952 2,952 2,540 3,005 2,952 2,952 3,059 3,095 3,095 3,005 2,826 2,898 3,023 2,952
radius in mm	165 165 165 142 168 165 165 171 173 173 168 158 162 169 165
Cat. No.	blood collection / urine vessels tubes with screw cap

	
Adapter	
boring Ø x L in mm	17.5x60.7 17.5x60.7 17.5x60.7 13x54.5 12.8x82 17.5x60.7 17.5x60.7 17.5x82 17x85 30x85 17.5x82 26x73 25.5x82 30x99 17.5x60.7
vessels per rotor	32 32 32 48 48 32 32 28 28 8 28 12 16 8 32
Cat. No.	5136 5136 5136 5138 5120 5136 5136 5121⁴⁾ 5129 5123 5121 5134 5122 5135 5136

	
Vessels	
capacity in ml	250 290
Ø x L in mm	61 x 122 62 x 137
max. RCF ²⁾	3,095 3,095
radius in mm	173 173
Cat. No.	5127²⁴⁾ - 24)

	
Adapter	
boring Ø x L in mm	66x103 66x103
vessels per rotor	4 4
Cat. No.	6319 6319

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



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
Cat. No.	MTP	MTP	CP	DWP	MS	Microtest plate	PCR plate 96 wells	PCR strips



Adapter

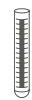









		
boring Ø x L in mm	-	-
plates / strips per rotor	16	48 x 8
Cat. No.	-	1485

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













Vessels

										
capacity in ml	15	25	94	15	50	10	30	50	85	250
Ø x L in mm	17x100	24x100	38x102	17x120	29x115	16x80	26x95	29x107	38 x 106	61 x 122
max. RCF ²⁾	11,301	10,897	10,292	10,998	10,090	11,402	10,897	10,090	10,292	12,007
radius in mm	112	108	102	109	100	113	108	100	102	119
Cat. No.	tubes ²⁾			tubes with screw cap						5127 ²⁴⁾



Adapter

										
boring Ø x L in mm	17.6x83	26x80	38.6x88	17x106	30x100	16.6x70	26x80	29x90	38.6 x 88	61.5x109
vessels per rotor	28	12	4	20	4	32	12	4	4	4
Cat. No.	5646	5642	5644	5637	5638	5641	5642	5643	5644	-

All footnotes in the catalog can be found on the last page.

ANGLE ROTOR, 6-PLACE | 4794



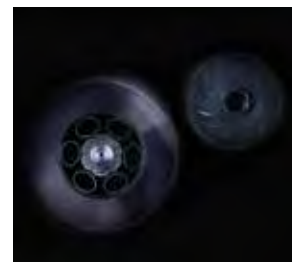
Rotor

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
-----------------	------------------



Vessels

capacity in ml	1.5 – 2	3	15	25	50	94	7.5 – 10	5	15	50	10	30	50	85	94
Ø x L in mm	11 x 38	10 x 60	17 x 100	24 x 100	34 x 100	38 x 102	15 x 102 / 16 x 92 ^{3a)}	17 x 59	17 x 120	29 x 115	16 x 80	26 x 95	29 x 107	38 x 106	38 x 102
max. RCF ²⁾	15,828	15,828	15,557	15,151	16,233	16,504	15,557	15,422	15,828	16,098	15,557	15,151	15,828	16,504	16,504
radius in mm	117	117	115	112	120	122	115	114	117	119	115	112	117	122	122
Cat. No.	-	tubes ²⁾					-	-	tubes with screw cap						



Adapter

boring Ø x L in mm	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 x 51	17 x 106	29.8 x 97	16.5 x 74	26 x 85	29 x 92	38.2 x 89.6	38.2 x 89.6
vessels per rotor	24	24	6	6	6	6	6	6	6	6	12	6	6	6	6
Cat. No.	1449	1449	1451	1447	1463	-	1451	1476	1466	1454	1448	1447	1446	-	-

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 bioseal ⁵⁾, phenol-resistant

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



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 36
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
Cat. No.	microliter tubes						Pediatric



Adapter

boring Ø x L in mm	6 x 40	6 x 40	8 x 40	8 x 40	-	11.2 x 40.9	11.2 x 40.9
vessels per rotor	30	30	30	30	30	30	15
Cat. No.	2024	2024	2023	2023	2031 ⁷⁾	-	0788 ¹⁷⁾

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).

— FIELDS OF APPLICATION

- Hospitals
- Hematological labs
- Small blood centers
- Veterinary labs
- Pharmaceutical companies
- Food analyzing labs
- University / Academic Research
- Oil labs
- Chemical industry
- Forensic labs
- Paternity testing labs
- Dairy testing labs



TECHNICAL DATA

	ROTANTA 460 non-refrigerated	ROTANTA 460 R refrigerated
voltage *)	220 – 240 V 1 ~	220 – 240 V 1 ~
frequency	50 – 60 Hz	50 – 60 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 750 ml	4 x 750 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 ~ / 50 – 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	4x750 ml	5699-R	104
 swing-out rotor, 4-place	90°	3,800 min ⁻¹	4x750 ml	5654	111
 swing-out rotor, 6-place	90°	4,000 min ⁻¹	6x290 ml	4446	113
 swing-out rotor, 4-place	90°	2,000 min ⁻¹	4x100 ml	4474	115
 swing-out rotor, 2-place	90°	5,900 min ⁻¹ / 6,200 min ⁻¹	12 plates	5622	115

ANGLE ROTORS

 angle rotor, 30-place	45°	15,000 min ⁻¹	30x2 ml	4489-A	116
 angle rotor, 6-place	25°	8,500 min ⁻¹ / 9,500 min ⁻¹	6x250 ml	5645	116
 angle rotor, 6-place	35°	11,500 min ⁻¹	6x94 ml	5615	117

CYTO

Cyto system available for this model.
More information on [page 174](#)

SWING-OUT ROTOR, 4-PLACE | 5699-R

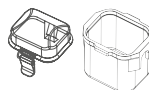
Rotor

max. RPM max. RCF ²⁾	4,600 min ⁻¹ 5,063
max. capacity	4 x 250 ml
run-up run-down, braked in sec	90 95
angle	90°
temperature in °C ¹⁾	+10
Cat. No.	5699-R



Bucket

lid bioseal ⁵⁾	5627
Cat. No.	5625-A



Vessels

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	44 x 100	40 x 115	65 x 100
max. RCF ²⁾	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	196	196	196	196	196	196	196	196	190	190	196	190	190
Cat. No.	microliter tubes			tubes²⁾											

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	42 x 80	46 x 84	42 x 80	66 x 80
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

Vessels

capacity in ml	1.1–1.4	2.6–3.4	2.7–3	4–5.5	4.5–5	4.9	7.5–8.5	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
Cat. No.	blood collection / urine vessels													tubes with screw cap	

Adapter

boring Ø x L in mm	11 x 84	13.5 x 84	13.5 x 84	17.5 x 84	13.5 x 84	13.5 x 84	17.5 x 84	17.5 x 84	17.5 x 84	13.5 x 84	13.5 x 84	17.5 x 84	17.5 x 84	17 x 80	17 x 80
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	4732	4733	4733	4739⁴⁾	4739

Vessels


capacity in ml	50	12	25	30	50	10	30	50	85	94
Ø x L in mm	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	38 x 102
max. RCF ²⁾	4,637	4,637	4,637	4,637	4,637	4,637	4,637	4,637	4,637	4,495
radius in mm	196	196	196	196	196	196	196	196	196	190
Cat. No.	tubes with screw cap									

Adapter

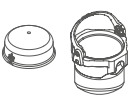

boring Ø x L in mm	30 x 80	17 x 80	26.5 x 84	26.5 x 84	30 x 80	17.5 x 84	26.5 x 84	30 x 80	42 x 80	42 x 80
vessels per rotor	20	48	24	24	20	68	24	20	12	12
Cat. No.	4740	4739⁴⁾	4734	4734	4740	4733	4734	4740	4736	4736

All footnotes in the catalog can be found on the last page.

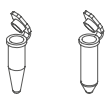

SWING-OUT ROTOR, 4-PLACE | 5699-R

	
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	90°
temperature in °C ¹⁾	+7
Cat. No.	5699-R


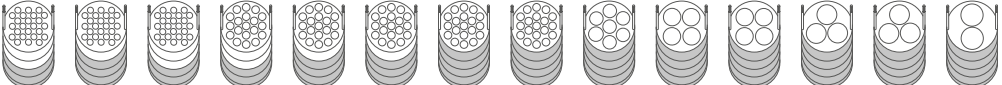



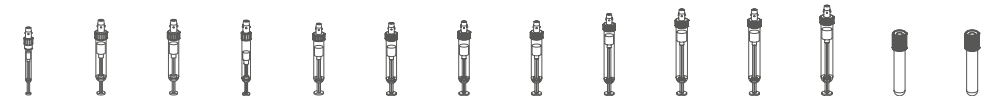
	
Bucket	
lid bioseal ⁵⁾	4883
Cat. No.	4880
	
Bucket without clamp lock¹⁴⁾	
Cat. No.	4885




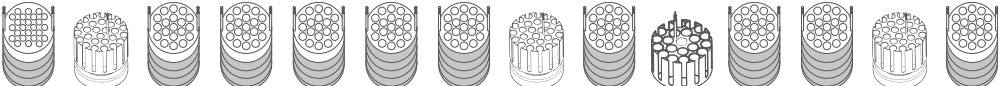
															
Vessels															
capacity in ml	1.5	2.0	3	4	4	5	6	7	15	25	45	50	94	100	100
Ø x L in mm	11 x 38	11 x 38	10 x 60	10 x 88	12 x 60	12 x 75	12 x 82	12 x 100	17 x 100	24 x 100	31 x 100	34 x 100	38 x 102	44 x 115	44 x 100
max. RCF ²⁾	3,572	4,637	4,637	4,637	4,637	4,637	4,637	4,637	4,637	4,637	4,495	4,495	4,495	4,495	4,637
radius in mm	151	196	196	196	196	196	196	196	196	196	190	190	190	190	196
Cat. No.	microliter tubes			tubes²⁾											

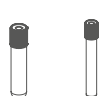



															
Adapter															
boring Ø x L in mm	11 x 84	11 x 84	11 x 84	11 x 84	13,5 x 84	13,5 x 84	13,5 x 84	13,5 x 84	17,5 x 84	26,5 x 84	36 x 80	36 x 80	42 x 80	42 x 80	46 x 84
vessels per rotor	192	192	96	96	76	76	76	76	76	28	16	16	12	12	8
Cat. No.	4830	4830	4830	4830	4832	4832	4832	4832	4832	4833	4834	4835	4835	4836	4837


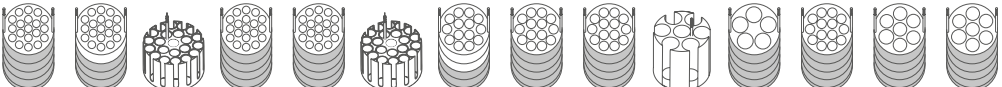
															
Vessels															
capacity in ml	250	1.1–1.4	2.6–3.4	2.6–3.4	2.7–3	4–5.5	4.5–5	4.9	4.9	7.5–8.5	9–10	9–10	10	1.6–5	1.6–5
Ø x L in mm	65 x 100	8 x 66	13 x 65	13 x 65	11 x 66	15 x 75	11 x 92	13 x 90	13 x 90	15 x 92	16 x 92	16 x 92	13 x 90	13 x 75	13 x 75
max. RCF ²⁾	4,495	4,637	4,116	4,637	4,637	4,637	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
Cat. No.	- 2)	blood collection / urine vessels													




															
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	4847 4)	4833	4848	4833	4833	4847	4832

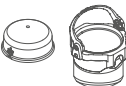

															
Vessels															
capacity in ml	4–7	4–7	4–7	4–7	8	8.5–10	8.5–10	5	14	15	50	50	12	25	30
Ø x L in mm	13 x 100	13 x 100	16 x 75	16 x 75	16 x 125	16 x 100	16 x 100	17 x 59	16,5 x 106	17 x 120	29 x 115	29 x 115	17 x 100	25 x 90	25 x 110
max. RCF ²⁾	4,684	4,637	4,637	4,684	4,637	4,637	4,684	4,637	4,637	4,637	4,708	4,637	4,637	4,566	4,566
radius in mm	198	196	196	198	196	196	198	196	196	196	199	196	196	193	193
Cat. No.	blood collection / urine vessels								-	tubes with screw cap					


















															
Adapter															
boring Ø x L in mm	13,2 x 61	13,5 x 84	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	17 x 80	30 x 96,5	30 x 80	17 x 80	26,5 x 84	26,5 x 84
vessels per rotor	108	76	76	88	76	76	88	56	56	56	28	20	56	28	28
Cat. No.	4847 4)	4832	4833	4848	4833	4833	4848	4839	4839 4)	4839	5647	4840	4839 4)	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	
lid bioseal ⁵⁾	4883
Cat. No.	4880
Bucket without clamp lock¹⁴⁾	
Cat. No.	4885



																
Vessels											^{3,8)}					
capacity in ml	50	50	10	10	30	50	50	85	94	250	290	500	600	650	750	
Ø x L in mm	29 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 102	61 x 122	62 x 137	96 x 147	93 x 134	97 x 139	97 x 152	
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	
Cat. No.	tubes with screw cap										5127 ²⁴⁾	- ²⁴⁾	Corning®	0551 ²⁴⁾	0554 ²⁴⁾	0512 ²⁴⁾

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	62 x 100	98 x 100	94 x 95	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	4841	4845	4846	4845	4845

Vessels									
capacity in ml	450	750	30	50	40	160	200	200	200
Ø x L in mm	97 x 110	96 x 135	-	-	-	-	-	-	-
max. RCF ²⁾	4,779	4,779	4,613 ²⁷⁾	4,613 ²⁷⁾	4,613 ²⁷⁾	4,613 ²⁷⁾	4,613 ²⁷⁾	4,613 ²⁷⁾	4,613 ²⁷⁾
radius in mm	202	202	195	195	195	195	195	195	195
Cat. No.	4447	4234-A	Falcon [®]	Corning [®]	Nunc [®]	Nunc [®]	Falcon [®]	Greiner [®]	Nunc [®]

Adapter									
boring Ø x L in mm	98 x 100	98 x 100	-	-	-	-	-	-	-
vessels per rotor	4	4	8	8	4	8	4	4	4
Cat. No.	4845	4845	4849	4849	4852	4851	4831	4831	4831

SWING-OUT ROTOR, 4-PLACE | 5699-R

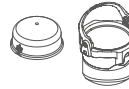
Rotor

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

lid bioseal ⁵⁾	4883
Cat. No.	4890
Bucket without clamp lock ¹⁴⁾	
Cat. No.	4895



Vessels

capacity in ml	1.5	2.0	5	7	8	9	15	25	50	100	2.6-3.4	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
Cat. No.	microliter tubes			tubes²⁾							blood collection / urine vessels				



Adapter

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

Vessels

capacity in ml	7.5-8.5	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 125	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
Cat. No.	blood collection / urine vessels										tubes with screw cap				



Adapter

boring Ø x L in mm	17.5 x 53	17.5 x 53	17.5 x 53	13.5 x 58	13.5 x 58	17.5 x 53	17.5 x 53	17.5 x 53	17.5 x 53	17 x 93.1	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

Vessels


capacity in ml	250	290	650	750	175	175	200	225	250	500	450	750	450
Ø x L in mm	61 x 122	62 x 137	97 x 139	97 x 152	61 x 118	62 x 144	60 x 130	61 x 137	60 x 162	96 x 147	97 x 110	96 x 135	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
radius in mm	206	206	206	206	214	214	214	214	214	214	214	214	214
Cat. No.	5127²⁴⁾	-²⁴⁾	0554²⁴⁾	0512²⁴⁾	Falcon®	Nalgene®	Nunc®	Falcon®	Corning®	Corning®	4447	4234-A	blood bags²⁸⁾



Adapter

boring Ø x L in mm	62 x 92	62 x 92	98.4 x 116	98.4 x 116	-	-	-	-	-	-	98.4 x 116	98.4 x 116	-
vessels per rotor	8	6	4	4	8	8	8	8	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	90°
temperature in °C ¹⁾	+10
Cat. No.	5699-R




	
Bucket	
Cat. No.	5691-A



<div> <div>holder for systems without filter</div>  </div> <div> <div>holder for systems with and without filter</div>  </div>	
Blood bags	
capacity in ml	450
blood bag	3-place-System
max. RCF ²⁾	4,637
radius in mm	196
Cat. No.	5693

<div> <div>holder for systems without filter</div>  </div> <div> <div>holder for systems with and without filter</div>  </div>	
Insert	
boring Ø x L in mm	-
blood bags per rotor	4
Cat. No.	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	90°
temperature in °C ¹⁾	+10
Cat. No.	5699-R




	
Bucket	
Cat. No.	5636



<div> <div>TaqMan Array</div>  </div>	
Array	
capacity in ml	-
W x D x H in mm	152.5x85.5x12
max. RCF ²⁾	4,921
radius in mm	208
Cat. No.	-

<div> <div>Adapter</div>  </div>	
Adapter	
boring Ø x L in mm	-
arrays per rotor	12
Cat. No.	5648

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	90°
temperature in °C ¹⁾	+10
Cat. No.	5699-R

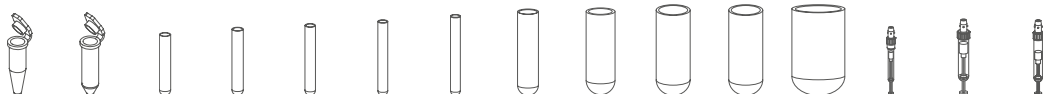


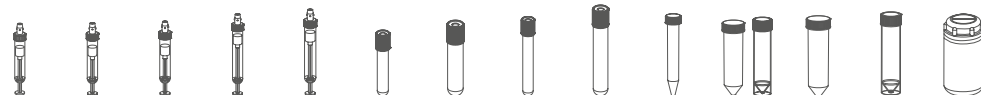
Bucket	
Cat. No.	5628 ⁹⁾





Adapting frame	
Cat. No.	5220-A



	
Vessels	
capacity in ml	1.5 2.0 3 5 6 7 9 25 50 100 100 250 1.1-1.4 2.6-3.4 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 44 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
Cat. No.	microliter tubes tubes²⁾ blood collection / urine vessels
	+ 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 86 36 x 86 45.5 x 86 42 x 86 66 x 87 11 x 44 13.5 x 52 12.5 x 42
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

	
Vessels	
capacity in ml	4-5.5 4.5-5 4.9 7.5-8.5 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 61 x 122
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 3,196
radius in mm	174 174 176 174 173 176 174 176 173 180 177 180 177 177
Cat. No.	blood collection / urine vessels tubes with screw cap 5127²⁴⁾
	+ 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	16 x 50 12.5 x 42 13.5 x 52 16 x 50 17.6 x 86 13.5 x 52 16 x 50 13.5 x 52 17.7 x 86 17 x 90 26 x 86 30 x 90 30 x 87 66 x 87
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⁾

	
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
Cat. No.	cyto chambers

	
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 174](#)

— SWING-OUT ROTOR, 4-PLACE | 5699-R



Rotor

max. RPM max. RCF	4,600 min ⁻¹ 3,785
max. capacity	4x200 ml
run-up run-down, braked in sec	90 95
angle	90°
temperature in °C ¹⁾	+10
Cat. No.	5699-R



Bucket

Cat. No.	5630-B
----------	--------



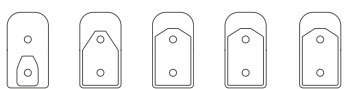
Vessels

capacity in ml	40	160	200	200	200
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	160	160	160	160	160
Cat. No.	Nunc®	Nunc®	Falcon®	Greiner®	Nunc®



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	20 plates
run-up run-down, braked in sec	90 95
angle	90°
temperature in °C ¹⁾	+10
Cat. No.	5699-R



Bucket

Cat. No.	5630-B
----------	--------

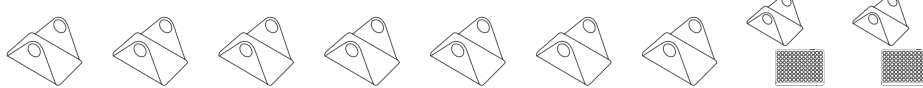
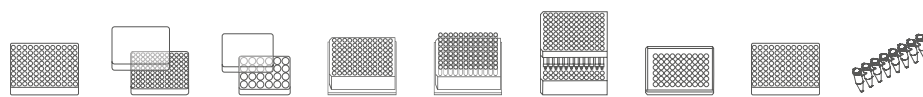


Plates

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
Cat. No.	MTP	MTP	CP	DWP	MS	QP	Microtest plate	PCR plate	PCR strips




Removal frame

[illegible]

All footnotes in the catalog can be found on the last page.

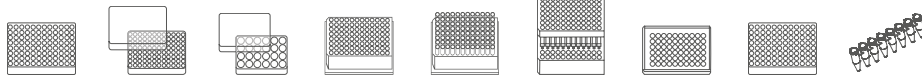
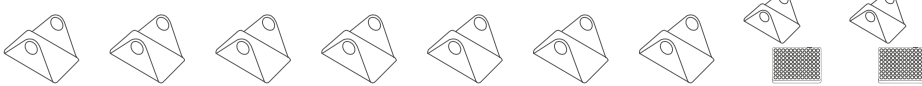
SWING-OUT ROTOR, 4-PLACE | 5699-R

	
Rotor	
max. RPM max. RCF	4,600 min ⁻¹ 4,211
max. capacity	24 plates
run-up run-down, braked in sec	90 95
angle	90°
temperature in °C ¹⁾	+10
Cat. No.	5699-R




	
Bucket	
lid bioseal ⁵⁾	5629
Cat. No.	5628⁹⁾



									
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
Cat. No.	MTP	MTP	CP	DWP	MS	QP	Microtest plate	PCR plate	PCR strips
									
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

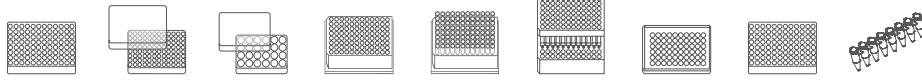
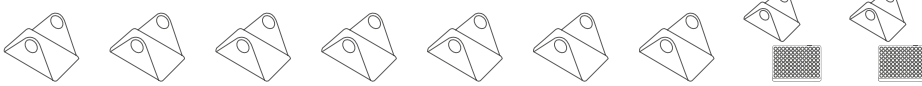
SWING-OUT ROTOR, 4-PLACE | 5654

	
Rotor	
max. RPM max. RCF	3,800 min ⁻¹ 2,890
max. capacity	24 plates
run-up run-down, braked in sec	61 57
angle max. noise level	90° 57 dB (A)
temperature in °C ¹⁾	-4
Cat. No.	5654




	
Bucket	
lid bioseal ⁵⁾	5629
Cat. No.	5653



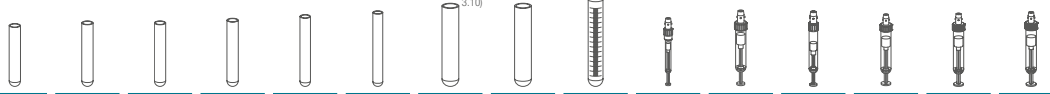
									
Plates									
W x D x H in mm	128x86x15	128x86x17.5	128x86x22	128x86x44.5	128x86x46	128x86x83	84x59x11	124x82x20	-
capacity in ml	-	-	-	-	-	-	-	-	0.2
max. RCF ²⁾	2,890	2,890	2,890	2,890	2,890	2,890	2,890	2,890	2,890
radius in mm	max. 179	max. 179	max. 179	max. 179	max. 179	max. 179	max. 179	max. 179	max. 179
Cat. No.	MTP	MTP	CP	DWP	MS	QP	Microtest plate	PCR plate	PCR strips
									
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

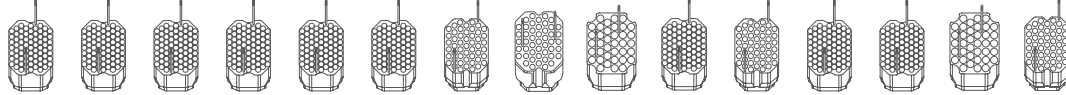
SWING-OUT ROTOR, 4-PLACE | 5654


	
Rotor	
max. RPM max. RCF	3,800 min ⁻¹ 3,196
max. capacity	6 x 750 ml
run-up run-down, braked in sec	61 57
angle max. noise level	90° 58 dB (A)
temperature in °C ¹⁾	+3
Cat. No.	5654

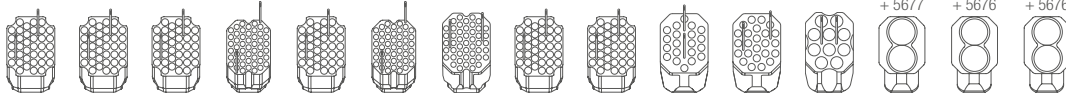
	
Bucket	
lid bioseal ⁵⁾	5652
Cat. No.	5651-A

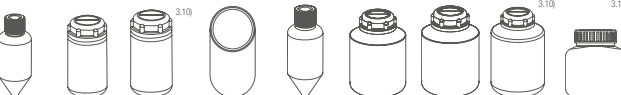



	
Vessels	
capacity in ml	3 4 4 5 6 7 10 10 15 1.1–1.4 2.6–3.4 2.7–3 4.5–5 4–5.5 4.9
Ø x L in mm	10 x 60 10 x 88 12 x 60 12 x 75 12 x 82 12 x 100 13 x 100 13 x 100 17 x 100 8 x 66 13 x 65 11 x 66 11 x 92 15 x 75 13 x 90
max. RCF ²⁾	2,874 2,874 2,874 2,874 2,874 2,874 2,906 2,906 2,970 2,874 2,906 2,874 2,874 2,970 2,906
radius in mm	178 178 178 178 178 178 180 180 184 178 180 178 178 184 180
Cat. No.	tubes²⁾ blood collection / urine vessels

	
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	7.5–8.5 9–10 10 1.6–5 4–7 4–7 4–7 8.5–10 10 5 15 50 175 175 200
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 59 17 x 120 29 x 115 61 x 118 62 x 144 60 x 130
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
Cat. No.	blood collection / urine vessels - tubes with screw cap Falcon® Nalgene® Nunc®

	
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 42 17 x 60 30 x 60 62 x 100 62 x 100 62 x 100
vessels per rotor	148 148 148 196 148 196 188 148 148 80 96 40 8 8 8
Cat. No.	5682 5682 5682 5674 5682 5674 5685 5682 5682 5688 5683 5686 5681 5681 5681

	
Vessels	
capacity in ml	225 250 290 450 500 600 650 750 1,000
Ø x L in mm	61 x 137 61 x 122 62 x 137 97 x 110 96 x 147 93 x 134 97 x 139 97 x 152 99/126 x 140
max. RCF ²⁾	3,196 3,196 3,196 3,196 3,196 3,196 3,196 3,196 3,196
radius in mm	198 198 198 198 198 198 198 198 198
Cat. No.	Falcon® 5127²⁴⁾ -²⁴⁾ 4447 Corning® 0551²⁴⁾ 0554²⁴⁾ 0512²⁴⁾ -

	
Adapter	
boring Ø x L in mm	62 x 100 62 x 100 62 x 100 98 x 100 98 x 100 98 x 100 98 x 100 98 x 100 100/127 x 68
vessels per rotor	8 8 8 4 4 4 4 4 1
Cat. No.	5681 5681 5681 5687 5687 5687 5687 5687 5669

All footnotes in the catalog can be found on the last page.

SWING-OUT ROTOR, 6-PLACE | 4446

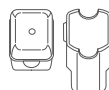


Rotor

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

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
Cat. No.	microliter tubes				tubes ²⁾									

Adapter

boring Ø x L in mm	12.5 x 42	12.5 x 42	11.5 x 50	11.5 x 50	11 x 44	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	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

Vessels

capacity in ml	1.1–1.4	2.6–3.4	2.7–3	4–5.5	4.5–5	4.9	7.5–8.5	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
Cat. No.	blood collection / urine vessels												

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

Vessels

capacity in ml	15	30	50	12	30	50	1–8
Ø x L in mm	17 x 120	25 x 110	29 x 115	17 x 100	25 x 110	29 x 115	simple / multiple
max. RCF ²⁾	3,434	3,291	3,291	3,434	3,291	3,291	2,290 / 3,291
radius in mm	192	184	184	192	184	184	128 / 184
Cat. No.	tubes with screw cap						cyto chambers

Adapter

boring Ø x L in mm	17 x 90	26 x 86	30 x 86	17 x 90	26 x 86	36 x 86	-
vessels per rotor	42	30	12	42	30	12	12
Cat. No.	6306	5266	5259	6306	5266	5243	5280

CYTO

Cyto system available for this model.
More information on [page 174](#)

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	45 55
angle	90°
temperature in °C ¹⁾	-3
Cat. No.	4446



Bucket

lid bioseal ⁵⁾	5093
Cat. No.	5092



Vessels

capacity in ml	5	6	7	15	25	50	100	100	250	1.1–1.4	1.1–1.4	2.6–3.4	2.6–3.4	2.7–3	2.7–3
Ø x L in mm	12 x 75	12 x 82	12 x 100	17 x 100	24 x 100	34 x 100	44 x 100	40 x 115	65 x 115	8 x 66	8 x 66	13 x 65	13 x 65	11 x 66	11 x 66
max. RCF ²⁾	3,542	3,542	3,542	3,488	3,434	3,488	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
Cat. No.	tubes²⁾									blood collection tubes / urine tubes					



Adapter

boring Ø x L in mm	12.8 x 45	12.8 x 45	12.8 x 82	17.5 x 60.7	25.5 x 82	35.5 x 82.5	45.5 x 85	42 x 85	66 x 103	13.5 x 60.7	13 x 54.5	13.5 x 60.7	13 x 54.5	13.5 x 60.7	13 x 54.5
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

capacity in ml	4.9	4–5.5	4.5–5	7.5–8.5	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	13 x 90	15 x 75	11 x 92	15 x 92	16 x 92	15 x 102	13 x 75	13 x 75	16 x 75	13 x 100	16 x 125	16 x 100	16 x 80	17 x 120	25 x 110
max. RCF ²⁾	3,488	3,488	3,542	3,488	3,488	3,488	3,488	3,077	3,542	3,488	3,542	3,488	3,488	3,631	3,434
radius in mm	195	195	198	195	195	195	195	172	198	195	198	195	195	203	192
Cat. No.	blood collection tubes / urine tubes											tubes with screw cap			



Adapter

boring Ø x L in mm	13.5 x 60.7	17.5 x 60.7	12.8 x 82	17.5 x 60.7	17.5 x 60.7	17.5 x 60.7	13.5 x 60.7	13 x 54.5	12.8 x 82	12.8 x 60.7	17.5 x 82	17.5 x 60.7	17.5 x 60.7	17 x 85	25.5 x 82
vessels per rotor	48	48	72	48	48	48	48	72	72	48	42	48	48	42	24
Cat. No.	5137	5136	5120	5136	5136	5136	5137	5138	5120	5136	5121	5136	5136	5129	5122

Vessels

capacity in ml	50	50	12	25	30	250	290
Ø x L in mm	29 x 115	29 x 115	17 x 100	25 x 90	25 x 110	61 x 122	62 x 137
max. RCF ²⁾	3,631	3,560	3,542	3,363	3,434	3,631	3,631
radius in mm	203	199	198	188	192	203	203
Cat. No.	tubes with screw cap					5127²⁴⁾	– 24)

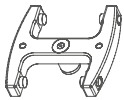


Adapter

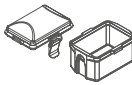
boring Ø x L in mm	30 x 85	30 x 99	17.5 x 82	26 x 73	25.5 x 82	66 x 103	66 x 103
vessels per rotor	12	12	42	18	24	6	6
Cat. No.	5123	5135	5121	5134	5122	6319	6319

All footnotes in the catalog can be found on the last page.



















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	90°
temperature in °C ¹⁾	+10
Cat. No.	5622




Bucket	
lid bioseal ⁹⁾	4627
Cat. No.	5631



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
Cat. No.	MTP	MTP	CP	DWP	MS	QP	Microtest plate	PCR plate 96 wells	PCR strips
Removal frame									
boring Ø x L in mm	-	-	-	-	-	-	-	-	-
vessels per rotor	12	10	8	2	2	2	4	2	24 x 8
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	17 20
angle max. noise level	90° 46 dB (A)
temperature in °C ¹⁾	-8
Cat. No.	4474




Bucket	
Cat. No.	4275



Vessels					
capacity in ml	50	100	100	100	50
Ø x L in mm	45x130	58x161	44x168	37x200	36.5x185
max. RCF ²⁾	984	984	961	961	912
radius in mm	220	220	215	215	204
Cat. No.	ASTM ^{2.1)}	ASTM 0528 ^{2.1)}	ASTM ^{2.1)}	ASTM 0531 ^{2.1)}	Babcock
Adapter					
boring Ø x L in mm	-	-	-	-	-
vessels per rotor	4	4	4	4	4
Cat. No.	4278-A	0771	4277	4276-B	0703-A

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	73 77
angle max. noise level	45°
temperature in °C ¹⁾	+4
Cat. No.	4489-A








Lid bioseal ⁵⁾
and phenol-resistant







Cat. No.




INCLUSIVE



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 36
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
Cat. No.	microliter tubes						Pediatric

Adapter						
boring Ø x L in mm	6 x 40	6 x 40	8 x 40	8 x 40	-	11.2 x 40.1
vessels per rotor	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 max. noise level	25°
temperature in °C ¹⁾	+7
Cat. No.	5645












Lid bioseal ⁵⁾












Cat. No.




INCLUSIVE



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 102	17 x 120	29 x 115	16 x 80	26 x 95	29 x 107	38 x 106	38 x 102	61 x 122
max. RCF ²⁾	10,662	10,339	9,855	10,339	9,693	10,743	10,339	9,693	9,855	9,855	11,228
max. RCF ²⁾	13,319	12,915	12,310	12,915	12,108	13,420	12,915	12,108	12,310	12,310	14,025
radius in mm	132	128	122	128	120	133	128	120	122	122	139
Cat. No.	tubes ²⁾			tubes with screw cap							5127 ²⁴⁾

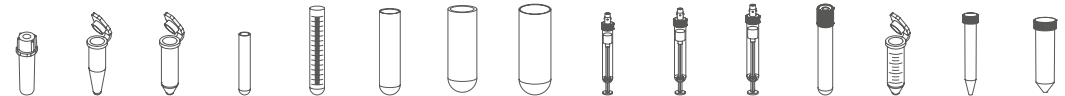

Adapter											
boring Ø x L in mm	17.6 x 83	26 x 80	38.6 x 88	17 x 106	30 x 100	16.6 x 70	26 x 80	29 x 90	38.6 x 88	38.6 x 88	61.5 x 109
vessels per rotor	42	18	6	30	6	48	18	6	6	6	6
Cat. No.	5646	5642	5644	5637	5638	5641	5642	5643	5644	5644	-



— 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	66 68
angle	45°
temperature in °C ¹⁾	+6
Cat. No.	5615

	
Lid bioseal⁵⁾	
Cat. No.	INCLUSIVE



	
Vessels	
capacity in ml	0.5 1.5 2.0 3 15 25 50 94 7.5 – 8.5 9 – 10 10 8.5 – 10 5 15 50
Ø x L in mm	10.7x36 11x38 11x38 10x60 17x100 24x100 34x100 38x102 15x92 16x92 15x102 16x100 17x59 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
Cat. No.	Pediatric microliter tubes tubes²⁾ blood collection / urine tubes - tubes with screw cap
	
Adapter	
boring Ø x L in mm	11.4x39 11.4x39 11.4x39 11.4x39 17.5x92 26x85 35x89 38.2x89.6 17.5x92 17.5x92 17.5x92 17.5x92 17x51 17x106 29.8x97
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

	
Vessels	
capacity in ml	10 30 50 85 94
Ø x L in mm	16x80 26x95 29x107 38 x 106 38 x 102
max. RCF ²⁾	17,003 16,560 17,299 18,038 18,038
radius in mm	115 112 117 122 122
Cat. No.	tubes with screw cap
	
Adapter	
boring Ø x L in mm	16.5x74 26x85 29x92 38.2x 89.6 38.2x 89.6
vessels per rotor	12 6 6 6 6
Cat. No.	1448 1447 1446 - -

ROTOFIX 46 | 46 H

Robust industrial unit

These are ideal centrifuges for research and industrial laboratories. They are robust and can withstand intensive usage, even 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).

— FIELDS OF APPLICATION

- Petrochemical labs
- Automobile industry
- Chemical labs



INDUSTRIAL
DEVICE
CE




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)	538x647x345 mm	538x647x345 mm
weight	approx. 60 kg	approx. 60 kg
noise level	50 dB (A) with rotor 4619	38 dB (A) with rotor 4619
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

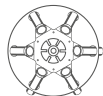
SWING-OUT ROTORS

	angle	max. RPM	max. capacity	Cat. No.	page
 swing-out rotor, 6-place	90°	2,000 min ⁻¹	6x30 ml	4619	120
 swing-out rotor, 4-place	90°	2,000 min ⁻¹	4x100 ml	4474	121
 swing-out rotor, 4-place	90°	4,000 min ⁻¹	4x290 ml	5694	121

ANGLE ROTOR

 angle rotor, 6-place	45°	2,000 min ⁻¹	6x50 ml	5616	120
--	-----	-------------------------	---------	-------------	-----

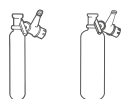
ANGLE ROTOR, 6-PLACE | 5616



Rotor

max. RPM max. RCF	2,000 min ⁻¹ 805
max. capacity	6 x 50 ml
run-up run-down, braked in sec	15 35
angle max. noise level	45° 38 dB (A)

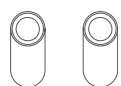
Cat. No. **5616** ³⁰⁾



Tubes

capacity in ml	25	50
Ø x L in mm	24x146.5	38x148.5
max. RCF ^{2.1)}	783	805
radius in mm	175	180

Cat. No. **0532** **0533**



Adapter

boring Ø x L in mm	25 x 86	38.5x89.9
tubes per rotor	6	6

Cat. No. **4317** **-**



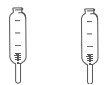
SWING-OUT ROTOR, 6-PLACE | 4619



Rotor

max. RPM max. RCF	2,000 min ⁻¹ 917
max. capacity	6 x 30 ml
run-up run-down, braked in sec	15 20
angle max. noise level	90° 38 dB (A)

Cat. No. **4619** ³⁰⁾



Tubes

capacity in ml	30	30
Ø x L in mm	24 x 151	24 x 151
max. RCF ^{2.1)}	917	917
radius in mm	206	206

Cat. No. **0529** **0508** ⁹⁾




Adapter

boring Ø x L in mm	-	-
tubes per rotor	6	6

Cat. No. **-** **-**



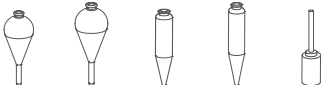
— SWING-OUT ROTOR, 4-PLACE | 4474

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




Bucket	
Cat. No.	4275




	
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
Cat. No.	ASTM^{2,1)} 0528^{2,1)} ASTM^{2,1)} 0531^{2,1)} Babcock



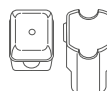
	
Adapter	
boring Ø x L in mm	- - - - -
tubes per rotor	4 4 4 4 4
Cat. No.	4278-A 0771 4277 4276-B 0703-A

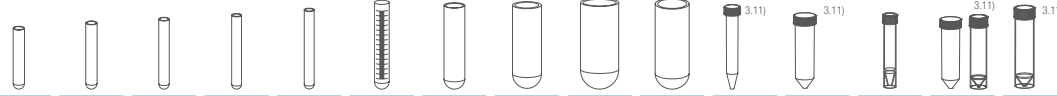

— SWING-OUT ROTOR, 4-PLACE | 5694 (NOT FOR 46 H)

	
Rotor	
max. RPM max. RCF	4,000 min ⁻¹ 3,095
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

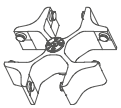


Bucket	
lid	5053
Cat. No.	5051



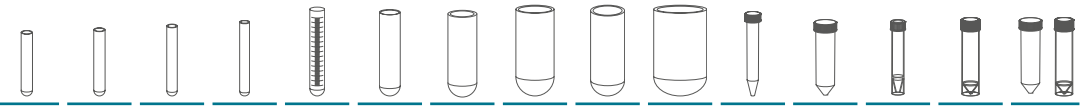
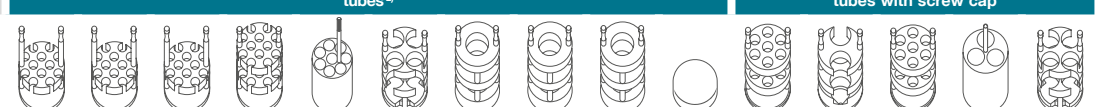
	
Tubes	
capacity in ml	3 5 6 7 9 15 25 50 100 100 15 50 12 30 50
Ø x L in mm	10 x 60 12 x 75 12 x 82 12 x 100 14 x 100 17 x 100 24 x 100 34 x 100 44 x 100 40 x 115 17 x 120 29 x 115 17 x 100 25 x 110 29 x 115
max. RCF ²⁾	2,737 2,773 2,773 2,755 2,773 2,755 2,755 2,755 2,755 2,755 2,898 2,826 2,898 2,755 2,755
radius in mm	153 155 155 154 155 154 154 154 154 154 162 158 162 154 154
Cat. No.	tubes²⁾ tubes with screw cap
	
Adapter	
boring Ø x L in mm	11 x 44 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 17 x 90 30 x 86 17 x 90 26 x 86 36 x 86
tubes per rotor	80 80 80 80 48 48 20 8 4 4 28 8 28 20 8
Cat. No.	5267 5227 5227 5247¹⁵⁾ 5264 5248¹⁵⁾ 5242 5243 5262 5249 6306 5259 6306 5266 5243⁴⁾

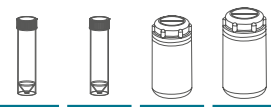
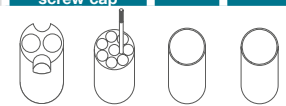
SWING-OUT ROTOR, 4-PLACE | 5694 (NOT FOR 46 H)

	
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 ³⁾	5093
Cat. No.	5092



	
Tubes	
capacity in ml	4 5 6 7 15 25 50 100 100 250 15 50 12 25 30
Ø x L in mm	12x60 12x75 12x82 12x100 17x100 24x100 34x100 44x100 40x115 65x115 17x120 29x115 17x100 25x90 25x110
max. RCF ²⁾	3,005 3,005 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
radius in mm	168 168 168 168 165 162 165 165 165 173 173 173 168 158 162
Cat. No.	<div>tubes²⁾</div> <div>tubes with screw cap</div>
	
Adapter	
boring Ø x L in mm	12.8x45 12.8x45 12.8x45 12.8x82 17.5x60.7 25.5x82 35.5x82.5 45.5x85 42x85 66x103 17x85 30x85 17.5x82 26x73 25.5x82
tubes per rotor	48 48 48 48 32 16 4 4 4 4 28 8 28 12 16
Cat. No.	<div>5128 5128 5128 5120 5136 5122 5124 5125 5126 1791 5129 5123 5121 5134 5122</div>

	
Tubes	
capacity in ml	50 10 250 290
Ø x L in mm	29 x 115 16 x 80 61 x 122 62 x 137
max. RCF ²⁾	3,023 2,952 3,095 3,095
radius in mm	169 165 173 173
Cat. No.	<div>tubes with screw cap</div> <div>5127²⁴⁾ - 24)</div>
	
Adapter	
boring Ø x L in mm	30x99 17.5x60.7 66x103 66x103
tubes per rotor	8 32 4 4
Cat. No.	<div>5135 5136 6319 6319</div>

DID YOU KNOW?

The Download Center on our website allows you to access the most up to date documents including catalogs, brochures, data sheets and certificates.

Try it now: www.hettichlab.com/downloadcenter



FLOORSTANDING CENTRIFUGES

High performance, throughput and capacity



ROTANTA 460 RC | 460 RF
on page 126



ROTIXA 500 RS
on page 128



ROTO SILENTA 630 RS
on page 142



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 from benchtop units.

Both units include refrigeration with a temperature range from -20 °C to +40 °C.

— FIELDS OF APPLICATION

- Hospitals
- Hematological labs
- Small blood centers
- Veterinary labs
- Pharmaceutical companies
- Food analyzing labs
- University / Academic Research
- Oil labs
- Chemical industry
- Forensic labs
- Paternity testing labs
- Dairy testing labs





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 750 ml	4 x 750 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 RF)

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	104
	swing-out rotor, 4-place	90°	3,800 min ⁻¹	4x750 ml	5654	111
	swing-out rotor, 6-place	90°	4,000 min ⁻¹	6x290 ml	4446	113
	swing-out rotor, 4-place	90°	2,000 min ⁻¹	4x100 ml	4474	115
	swing-out rotor, 2-place	90°	5,900 min ⁻¹ / 6,200 min ⁻¹	12 plates	5622	115
ANGLE ROTORS						
	angle rotor, 30-place	45°	15,000 min ⁻¹	30x2 ml	4489-A	116
	angle rotor, 6-place	25°	8,500 min ⁻¹ / 9,500 min ⁻¹	6x250 ml	5645	116
	angle rotor, 6-place	45°	11,500 min ⁻¹	6x94 ml	5615	117

CYTO

Cyto system available for this model.
More information on [page 174](#)

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 labs, it accommodates 4 bottles up to 1,000 ml, specialty racks, as well as containers and vessels for various applications.

This unit includes refrigeration with a temperature range from -20°C to +40°C.

— FIELDS OF APPLICATION

- Hospitals
- Hematology labs
- Blood centers
- Veterinary labs
- Clinical labs
- Environmental analyzing labs
- University / Academic Research
- Automobile industry
- Chemical industry
- Dairy industry



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.



^{>)} Other models on request.

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	130
	swing-out rotor, 6-place	90°	4,000 min ⁻¹	6 x 250 ml	4296	136
	swing-out rotor, 2-place	90°	3,600 min ⁻¹	20 plates	4282	138


ANGLE ROTORS

	angle rotor, 6-place	25°	9,500 min ⁻¹	6 x 250 ml	4266	139
	angle rotor, 6-place	45°	11,500 min ⁻¹	6 x 94 ml	4246	140

CYTO















Cyto system available for this model.
More information on [page 174](#)















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														
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
Cat. No.	microliter tubes			tubes²⁾										

Adapter														
boring Ø x L in mm	8.2x36	11.2x46	11.2x46	11x74	12.5x36	12.5x74	12.5x74	16 x 74	16 x 74	17.5x74	26x74	35x74	41.5x74	41.5x74
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														
capacity in ml	2.6-3.4	2.7-3	4-5.5	4.5-5	7.5-8.5	9-10	10	1.6-5	4-7	4-7	8	8.5-10	15	50
Ø x L in mm	13 x 65	11 x 66	15 x 75	11 x 92	15 x 92	16 x 92	15 x 102	13 x 75	13 x 100	16 x 75	16 x 125	16 x 100	17 x 120	29 x 115
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
Cat. No.	blood collection / urine tubes												tubes with screw cap	

Adapter														
boring Ø x L in mm	13.2x36	12.5x36	17.5x36	12.5x74	17.5x74	17.5x74	17.5x74	13.2x36	13.2x74	17.5x36	16x74	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														
capacity in ml	12	25	30	50	100	100	250	290	600	650	750	750	250	500
Ø x L in mm	17x100	25x90	25x110	29x115	40x115	40x115	61 x 122	62 x 137	93 x 137	97 x 139	97 x 152	96 x 135	60 x 162	96 x 147
max. RCF ²⁾	4,777	4,777	4,777	4,867	4,777	4,777	4,777	4,777	4,958	4,958	4,958	4,958	4,777	4,958
radius in mm	211	211	211	215	211	211	211	211	219	219	219	219	211	219
Cat. No.	tubes with screw cap						5127²⁴⁾	-²⁴⁾	0551²⁴⁾	0554²⁴⁾	0512²⁴⁾	4234-A	Corning®	Corning® +4449

Adapter														
boring Ø x L in mm	17.5x74	26 x 73	26 x 74	30 x 96	41.5 x 74	41.5 x 74	62 x 90	62 x 90	94 x 105	97.5x105	97.5x105	97.5x105	61 x 125	97.5x105
tubes per rotor	64	32	44	24	16	16	4	4	4	4	4	4	4	4
Cat. No.	4220	4241	4215	4249	4218	4218	4238	4238	4233	4258	4258	4258	6322	4258

SWING-OUT ROTOR, 4-PLACE | 4294



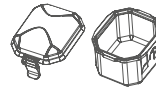
Rotor

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

capacity in ml	5	6	7	9	12	2.6–3.4	4.9	4–5.5	7.5–8.5	9–10	10	1.6–5	4–7	4–7	8.5–10
Ø x L in mm	12x75	12x82	12x100	14x100	16x101	13 x 65	13x90	15x75	15x92	16x92	15x102	13 x 75	13 x 100	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
Cat. No.	tubes ²⁾					blood collection / urine tubes									



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

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	4,618	4,618	4,618	4,618	4,528	4,528
radius in mm	201	201	196	204	204	204	204	200	200
Cat. No.	-²⁾	tubes with screw cap							



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)}

SWING-OUT ROTOR, 4-PLACE | 4294

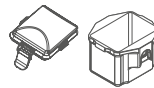
Rotor

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



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⁾	4,573	4,573	4,573	4,573	4,573	4,573	4,573	4,573
radius in mm	202	202	202	202	202	202	202	202
Cat. No.	MTP	MTP	CP	DWP	MS	QP	PCR plates 96-places	PCR strips




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 4,120
max. capacity	16 plates
run-up run-down, braked in sec	115 116
angle temperature in °C ¹⁾	90° +4
Cat. No.	4294




Bucket	
Cat. No.	4299-N



Plates								
W x D x H in mm	128x86x15	128x86x17.5	128x86x22	128x86x44.5	128x86x46	164x18x46	124x82x20	-
capacity in ml	-	-	-	-	-	-	-	0,2
max. RCF ²⁾	3,939	3,939	3,939	3,939	3,939	4,120	3,939	3,939
radius in mm	174	174	174	174	174	182	174	174
Cat. No.	MTP	MTP	CP	DWP	microtest plates	LKB Racks	PCR plates 96-places	PCR strips
+								
Removal aid								
boring Ø x L in mm	-	-	-	-	-	-	-	-
plates / strips per rotor	16	16	8	4	4	16	4	48 x 8
Cat. No.	4236	4236	4236	4236	4236	-	4236 + 1485	4236 + 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


















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
















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	4255
Cat. No.	4254


















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	7.5-8.5	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
Cat. No.	tubes²⁾							blood collection / urine tubes							

Adapter															
boring Ø x L in mm	13 x 58	13 x 58	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	17.5 x 53	17.5 x 53	17.5 x 53
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

Tubes															
capacity in ml	1.6-5	4-7	4-7	8	8.5-10	15	30	50	25	30	10	250	290	650	750
Ø x L in mm	13x75	13x100	16x75	16x125	16x100	17x120	25 x 110	29x115	25x90	25 x 110	16 x 80	61 x 122	62 x 137	97 x 139	97 x 152
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	5,184
radius in mm	204	204	211	211	211	216	208	216	208	208	211	221	221	229	229
Cat. No.	blood collection / urine tubes					tubes with screw cap						5127²⁴⁾	-²⁴⁾	0554²⁴⁾	0512²⁴⁾


Adapter															
boring Ø x L in mm	13.5 x 58	13.5 x 58	17.5 x 53	17.5 x 53	17.5 x 53	17 x 88	26 x 72	30 x 87	26 x 72	26 x 72	17.5 x 53	62 x 92	62 x 92	98 x 138	98 x 138
tubes per rotor	84	84	76	76	76	48	28	20	28	28	76	4	4	4	4
Cat. No.	4435	4435	4434	4434	4434	4437	4438	4441	4438	4438	4434	4443	4443	-	-

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	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
Cat. No.	4239²⁴⁾	4255	Falcon	Nalgene	Nunc®	Falcon	Corning®	Corning®

Adapter							
boring Ø x L in mm	98 x 138	-	-	-	-	-	-
tubes per rotor	4	4	4	4	4	4	4
Cat. No.	-	-	4440	4430	4430	4440	4430

All footnotes in the catalog can be found on the last page.

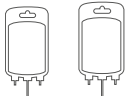
— SWING-OUT ROTOR, 4-PLACE | 4294

	
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

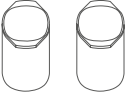


Bucket	
Cat. No.	4293



	
Blood bags	
capacity in ml	450 500
blood bags	3-place 3-place
max. RCF ²⁾	5,252 5,252
radius in mm	232 232
Cat. No.	blood bags




	
Adapter	
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 179

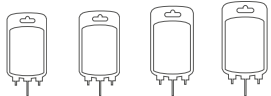
— SWING-OUT ROTOR, 4-PLACE | 4294

	
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	
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
Cat. No.	blood bags




	
Adapter	
boring Ø x L in mm	- - - -
blood bags per rotor	4 4 4 4
Cat. No.	4237-A 4237-A 4237-A -



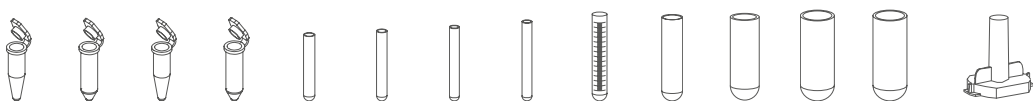
Additional blood bank accessories can be found on page 179

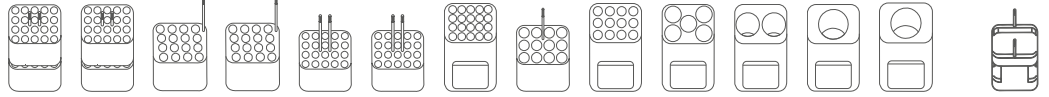
SWING-OUT ROTOR, 6-PLACE | 4296


	
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

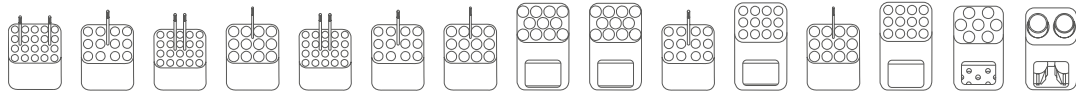
	
Bucket	
lid	5053
Cat. No.	5051

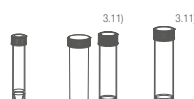


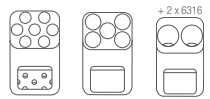
	
Vessels	
capacity in ml	1,5 2 1,5 2 5 6 7 9 15 25 50 100 100 1-8
Ø x L in mm	11x38 11x38 11x38 11x38 12x75 12x82 12x100 14x100 17x100 24x100 34x100 44x100 40x115 simple / multiple
max. RCF ²⁾	2,486 / 3,363 2,486 / 3,363 3,363 3,363 3,309 3,309 3,291 3,309 3,291 3,291 3,291 3,291 2,290 / 3,274
radius in mm	139 / 188 139 / 188 188 188 185 185 184 185 184 184 184 184 128 / 183
Cat. No.	microliter tubes tubes²⁾ cyto chambers

	
Adapter	
boring Ø x L in mm	12.5x42 12.5x42 11.5x50 11.5x50 12.5x42 12.5x42 12.5x86 16x50 17.5x86 26x86 36x86 45.5x86 42x86 -
vessels per rotor	240 240 96 96 120 120 120 72 72 30 12 6 6 12
Cat. No.	5257 5257 5281 5281 5227 5227 5247¹⁵⁾ 5264 5248¹⁵⁾ 5242 5243 5262 5249 5280

	
Vessels	
capacity in ml	1.1-1.4 2.6-3.4 2.7-3 4-5.5 4.5-5 4.9 7.5-8.5 9-10 10 1.6-5 4-7 4-7 8.5-10 15 50
Ø x L in mm	8x66 13x65 11 x 66 15 x 75 11 x 92 13x90 15x92 16x92 15x102 13x75 13x100 16x75 16x100 17x120 29x115
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 3,434 3,363
radius in mm	183 187 185 185 185 187 185 184 184 187 184 185 184 192 188
Cat. No.	blood collection / urine tubes tubes with screw cap

	
Adapter	
boring Ø x L in mm	11x44 13.5x52 12.5x42 16x50 12.5x42 13.5x52 16x50 17.6x86 17.6x86 13.5x52 13.5x86 16x50 17.5x86 17x90 30x86
vessels per rotor	120 72 120 72 120 72 72 66 66 72 72 72 72 42 12
Cat. No.	5267 5268 5227 5264 5227 5268 5264 5258 5258 5268 6301 5264 5248 6306 5259

	
Vessels	
capacity in ml	12 30 50
Ø x L in mm	17x100 25x110 29x115
max. RCF ²⁾	3,434 3,291 3,291
radius in mm	192 184 184
Cat. No.	tubes with screw cap

	
Adapter	
boring Ø x L in mm	17x90 26 x 86 36x86
vessels per rotor	42 30 12
Cat. No.	6306 5266 5243

CYTO Cyto system available for this model.
More information on [page 174](#)

All footnotes in the catalog can be found on the last page.

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



Vessels

capacity in ml	5	6	7	15	25	50	100	100	250	1.1–1.4	1.1–1.4	2.6–3.4	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	3,631	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
Cat. No.	tubes ²⁾									blood collection / urine tubes					



Adapter

boring Ø x L in mm	12.8x45	12.8x45	12.8x82	17.5x60.7	25.5x82	35.5x82.5	45.5x85	42x85	66x103	13.5x60.7	13x54.5	13x54.5	13.5x60.7	13x54.5	13.5x60.7
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

Vessels

capacity in ml	4–4.5	4.5–5	7.5–8.5	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
Cat. No.	blood collection / urine tubes									tubes with screw cap					



Adapter

boring Ø x L in mm	17.5x60.7	12.8x82	17.5x60.7	17.5x60.7	17.5x60.7	13x54.5	17.5x60.7	12.8x82	17.5x82	17.5x60.7	17x85	30x85	26x73	25.5x82	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

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
Cat. No.	-	5127²⁴⁾	-²⁴⁾



Adapter

boring Ø x L in mm	17.5x60.7	66x103	66x103
vessels per rotor	48	6	6
Cat. No.	5136	6319	6319

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



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
Cat. No.	MTP	MTP	CP	DWP	MS	PCR plates	PCR strips



Removal aid

boring Ø x L in mm	-	-	-	-	-	-	-
plates / strips per rotor	16	16	12	4	4	4	48 x 8
Cat. No.	4681	4281	4681	4681	4681	4281+1485	4281+1485

Plates


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
Cat. No.	Olympus Racks	Hitachi Racks	Behring Racks	Rack, 50-place



Removal aid

boring Ø x L in mm	-	-	-	-
plates / racks per rotor	12	20	10	2
Cat. No.	4283-B	4287-B	4288-A	4263-A

— 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 bioseal[®] and
phenol-resistant

Cat. No.














INCLUSIVE




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 102	17 x 120	29 x 115	16 x 80	26 x 95	29 x 107	38 x 106	38 x 102	61 x 122
max. RCF ²⁾	13,319	12,915	12,310	12,915	12,108	13,420	12,915	12,108	12,310	12,310	14,025
radius in mm	132	128	122	128	120	133	128	120	122	122	139
Cat. No.	tubes²⁾			tubes with screw cap							5127²⁴⁾



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 | 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	66 68
angle	45°
temperature in °C ¹⁾	+4
Cat. No.	4246


















Lid bioseal⁵⁾ and phenol-resistant


















Cat. No.













INCLUSIVE



Vessels																	
capacity in ml	0.5	1.5	2.0	3	15	25	50	94	7.5 – 8.5	9 – 10	10	8.5 – 10	5	15	50		
Ø x L in mm	10,7x36	11x38	11x38	10x60	17x100	24x100	34x100	38x102	15x92	16x92	15x102	16x100	17x59	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		
Cat. No.	pediatric	microliter tubes			tubes³⁾				blood collection / urine tubes				-		tubes with screw cap		

Adapter																	
boring Ø x L in mm	11.4x39	11.4x39	11.4x39	11.4x39	17.5x92	26x85	35x89	38.2x89.6	17.5x92	17.5x92	17.5x92	17.5x92	17x51	17x106	29.8x97		
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		

Vessels					
capacity in ml	10	30	50	85	94
Ø x L in mm	16x80	26x85	29x107	38 x 106	38 x 102
max. RCF ²⁾	17,003	16,560	17,299	18,038	18,038
radius in mm	115	112	117	122	122
Cat. No.	tubes with screw cap				

Adapter					
boring Ø x L in mm	16.5x74	26x85	29x92	38.2x89.6	38.2x89.6
vessels per rotor	12	6	6	6	6
Cat. No.	1448	1447	1446	-	-

HETTICH PACKAGES – ALL IN ONE!

No more searching for the right combination of accessories. Our packages include centrifuge, rotor, buckets and adapters – suitable for your specific application.

Find more information on [page 188](#).



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.

— FIELDS OF APPLICATION

- Hospitals
- Blood centers
- Pharmaceutical labs
- Food analyzing labs
- University / Academic Research
- Cell Culture labs
- Environmental labs



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

5005-08

consumption

9,000 VA

weight



approx. 401 kg

^{*)} Other voltages on request.


^{>)} Other models on request.

AVAILABLE ROTORS

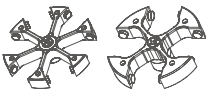

SWING-OUT ROTORS

		angle	max. RPM	max. capacity	Cat. No.	page
	swing-out rotor, 6-place	90°	4,500 min ⁻¹	6 x 2,000 ml	4176	144
	swing-out rotor, 4-place	90°	4,500 min ⁻¹	4 x 2,000 ml	4174	144





ANGLE ROTORS





	angle rotor, 6-place	25°	6,000 min ⁻¹	6 x 250 ml	4570	150
---	----------------------	-----	-------------------------	------------	-------------	-----

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	500	750
blood bag per system		4-place	4-place	4-place	1-place
max. RCF ²⁾	Rotor 4176 / 4174	6,498 / 5,683	6,498 / 5,683	6,498 / 5,683	6,498 / 5,683
radius in mm		287 / 251	287 / 251	287 / 251	287 / 251
Cat. No.		-	-	-	-


					
Insert					
boring Ø x L in mm		-	-	-	-
blood bag systems per rotor		12 / 8	12 / 8	12 / 8	12 / 8
Cat. No.		4529 ²⁾ -AO,-AM,-AU	4525-A	4592-B	4592-B


+ Additional blood bank accessories can be found on page 179

SWING-OUT ROTOR, 6- / 4-PLACE | 4176 / 4174

					
Rotor			+	Bucket	
max. RPM		4,500 min ⁻¹		Cat. No.	4546-A
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			



		
Blood bag		
capacity in ml		450
blood bag per system		4-place
max. RCF	Rotor 4176 / 4174	6,271 / 5,479
radius in mm		277 / 242
Cat. No.		-





		
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 179

All footnotes in the catalog can be found on the last page.

ROTO SILENTA 630 RS





			
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 179](#)

ROTO SILENTA 630 RS



		
Insert		
W x D x H in mm	145 x 91 x 146	-
vessels per rotor	6 / 4	6 / -
Cat. No.	4596-A	-

— SWING-OUT ROTOR, 6- / 4-PLACE | 4176 / 4174



Rotor			Bucket	
max. RPM		4,500 min ⁻¹	Cat. No.	4523-A
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		
Cat. No.		4176 / 4174		



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 / 6,475	5,660 / 5,660	6,520 / 5,705
radius in mm	285 / 250	285 / 250	288 / 252
Cat. No.	-	-	-



Insert

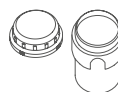
boring Ø x L in mm	-	-	-
blood bag systems per rotor	6 / 4	6 / 4	6 / 4
Cat. No.	4516-A	4516-A	-



+

Additional blood bank accessories can be found on [page 179](#)

— SWING-OUT ROTOR, 6- / 4-PLACE | 4176 / 4174



Rotor		Bucket	
max. RPM	4,500 min ⁻¹	lid	5621
max. RCF Rotor 4176 / 4174	6,316 / 5,524	Cat. No.	4547-B
max. capacity	6 / 4 blood bag		
run-up run-down, braked in sec	125 197		
angle temperature in °C ¹⁾	90° +9 / -9		
Cat. No.	4176 / 4174		



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
Cat. No.	-	-



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 179](#)

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	4255
Cat. No.	4579-A



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	13 x 65	11x66	15x75	11x92	13x90	16x92	15x102	13x75
max. RCF ²⁾	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
Cat. No.	tubes ²⁾							blood collection / urine tubes							



Adapter

boring Ø x L in mm	13 x 58	13 x 58	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	17.5 x 53	17.5 x 53	17.5 x 53
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⁾	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	6,294 / 5,501	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	278 / 243	278 / 243	278 / 243	278 / 243	278 / 243
Cat. No.	blood collection / urine tubes				tubes with screw cap			5127 ²⁴⁾	- ²⁴⁾	0554 ²⁴⁾	0512 ²⁴⁾	4239 ²⁴⁾	4255	Falcon	



Adapter

boring Ø x L in mm	13.5 x 58	17.5 x 53	17.5 x 53	17 x 88	30 x 87	26 x 72	26 x 72	16 x 80	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	-	-	-	-	4440

Vessels


capacity in ml	175	200	225	250	500
Ø x L in mm	61 x 144	60 x 130	61 x 137	60 x 162	96 x 147
max. RCF ²⁾	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
Cat. No.	Nalgene®	Nunc®	Falcon®	Corning®	Corning®



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
















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	
Lid bioseal ⁵⁾	5057
Cat. No.	4522-A













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	7.5-8.5	9-10
Ø x L in mm	10 x 88	12 x 75	12 x 82	12 x 100	16 x 101	17 x 100	24 x 100	34 x 100	44 x 115	13 x 65	11 x 66	15 x 75	11 x 92	15 x 92	16 x 92
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
Cat. No.	tubes ²⁾									blood collection / urine tubes					

Adapter															
boring Ø x L in mm	11 x 74	12.5 x 36	12.5 x 74	12.5 x 74	16 x 74	17.5 x 74	26 x 74	35 x 74	41.5 x 74	13.2 x 36	12.5 x 36	17.5 x 36	12.5 x 74	17.5 x 74	17.5 x 74
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

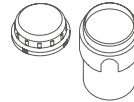
Vessels															
capacity in ml	10	1.6-5	4-7	4-7	8	8.5-10	15	50	12	25	30	50	250	290	600
Ø x L in mm	15 x 102	13 x 75	16 x 75	13 x 100	16 x 125	16 x 100	17 x 120	29 x 115	17 x 100	62 x 137	25 x 110	29 x 115	61 x 122	62 x 137	93 x 134
max. RCF	Rotor 4176 / 4174 5,818 / 5,003	5,818 / 5,003	5,818 / 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	5,818 / 5,003	5,909 / 5,094	5,818 / 5,003	5,818 / 5,003	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	257 / 221	261 / 225	257 / 221	257 / 221	265 / 229
Cat. No.	blood collection / urine tubes						tubes with screw cap						5127 ²⁴⁾	- ²⁴⁾	0551 ²⁴⁾

Adapter															
boring Ø x L in mm	17.5 x 74	13.2 x 36	17.5 x 36	13.2 x 74	16 x 74	17.5 x 74	17 x 70	30 x 70	17.5 x 74	26 x 73	26 x 74	30 x 96	62 x 90	62 x 90	94 x 105
vessels per rotor	180 / 120	180 / 120	180 / 120	180 / 120	150 / 100	180 / 120	138 / 92	48 / 32	96 / 64	48 / 32	66 / 44	36 / 24	6 / 4	6 / 4	6 / 4
Cat. No.	4214	4222-93	4214-93	4222	4223	4214	4232	4245-A	4220	4241	4215	4249	4238	4238	4233

Vessels					
capacity in ml	650	750	750	250	500
Ø x L in mm	97 x 139	97 x 152	93 x 135	60 x 162	96 x 147
max. RCF	Rotor 4176 / 4174 5,999 / 5,184	5,999 / 5,184	5,999 / 5,184	5,818 / 5,003	5,999 / 5,184
radius in mm	265 / 229	265 / 229	265 / 229	257 / 221	265 / 229
Cat. No.	0554 ²⁴⁾	0512 ²⁴⁾	4234-A	Corning[®]	Corning[®] +4448

Adapter					
boring Ø x L in mm	97.5 x 105	97.5 x 105	97.5 x 105	61 x 125	97.5 x 105
vessels per rotor	6 / 4	6 / 4	6 / 4	6 / 4	6 / 4
Cat. No.	4258	4258	4258	6322	4258

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⁾	5,841 / 5,026	5,841 / 5,026	5,977 / 5,164	5,977 / 5,164	5,728 / 4,913	5,773 / 4,981	5,750 / 4,958	5,841 / 5,026	5,841 / 5,026	5,977 / 5,164	5,841 / 5,026	5,841 / 5,026	5,977 / 5,164	5,977 / 5,164	5,977 / 5,164
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	258 / 222	264 / 229	264 / 229
Cat. No.	tubes ³⁾							blood collection / urine tubes							



Adapter

boring Ø x L in mm	13 x 58	13 x 58	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	17.5 x 53	17.5 x 53	17.5 x 53
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

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 / 5,164	5,977 / 5,164	5,977 / 5,164	6,090 / 5,298	6,090 / 5,298	5,909 / 5,117	5,909 / 5,117	5,977 / 5,164	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 / 234	261 / 226	261 / 226	264 / 229	274 / 239	274 / 239	282 / 247	282 / 247	282 / 247
Cat. No.	blood collection / urine tubes						tubes with screw cap				5127 ²⁴⁾	- ²⁴⁾	0554 ²⁴⁾	0512 ²⁴⁾	4239 ²⁴⁾



Adapter

boring Ø x L in mm	13.5 x 58	13.5 x 58	17.5 x 53	17.5 x 53	17.5 x 53	17 x 88	30 x 87	26 x 72	26 x 72	17.5 x 53	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

capacity in ml	175	175	200	225	250	500
Ø x L in mm	61 x 118	61 x 144	60 x 130	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
Cat. No.	Falcon®	Nalgene®	Nunc®	Falcon®	Corning®	Corning®



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

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 bioseal⁵⁾ and phenol-resistant

Cat. No.



INCLUSIVE



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 102	17 x 120	29 x 115	16 x 80	26 x 95	29 x 107	38 x 106	38 x 102	61 x 122
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
Cat. No.	tubes²⁾			tubes with screw cap							5127²⁴⁾

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	-

DID YOU KNOW?

The Download Center on our website allows you to access the most up to date documents including catalogs, brochures, data sheets and certificates.

Try it now: www.hettichlab.com/downloadcenter



HETTINFO

The HettInfo data documentation system consists of combinable modules and can be easily adapted to the required number of centrifuges. Up to 29 centrifuges and 3 external barcode units can be integrated into the network, which is reliable and absolutely immune to disturbances.

HettInfo enables logging of all centrifugation data. The user can log the date, end of the centrifugation run, program number and the temperature, and can select and de-select additional optional parameters. If barcode kits are used, the barcodes of blood bags and users can also be logged. In addition, the result of each run is automatically stored with all logged data. This simplifies any search for incorrect centrifuge runs.

Modern data back-up mechanisms increase data integrity. To avoid duplication and to ensure that higher-level databases are kept up to date, all data acquired using HettInfo can be integrated into these databases. For this, the data is stored in CSV format at the desired storage location. Time-consuming and costly programming of the interface is not required.

Program functions that can be connected:	Basic Kits	
	HettInfo Light Cat. No. 0910-L	HettInfo Cat. No. 0910-F
29 centrifuges	•	•
29 barcode kits	•	•
3 external barcode kits		•
Logging and storage of process data:		
Daily run time data	•	•
Overall run time data	•	•
Barcode result data	•	•
User barcodes and users		•
Centrifuge fault tables	•	•
Database functions:		
Delete table data	•	•
Print centrifuge report table		•
Print centrifuge fault table		•
Print barcode report table		•
Print barcode fault list		•
Print duplicate barcodes		•
Search barcodes		•
Delete packing room data		•
Password protection		•
Packing room		•
User administration		•

HettInfo guarantees reliability, transparency and flexibility of data documentation

Data documentation and traceability have to satisfy increasingly stringent requirements. As a consequence, more and more time has to be spent on documentation. With HettInfo transparency can be increased and at the same time processes can be streamlined and rationalized.



Packing room with external barcode unit



Barcode Kit ROTO SILENTA 630 RS



Centrifugation programs and the operator code can also be scanned-in by barcode.

Data log

Minimum PC requirements

(available from specialist computer resellers)

Processor	Pentium
Clock frequency	1 GHz
RAM	2 GB
Hard disk	20 GB
Interface	free RS 232
VGA graphics card	128 MB
Resolution	1024 x 768 (16 bit)
Operating system	Microsoft Windows XP® (SP 3), Windows 7, Windows 8 or Windows 10

Additional components: network adapter card

(available from specialist computer resellers)

Participants

The data collected through HettInfo by the participants is stored on a PC with a RS 232 interface. Participants are centrifuges with an online kit, an online kit plus a barcode kit, external barcode units and additional distributors. A centrifuge fitted with a barcode kit requires an online kit. In principle any centrifuge with an S or C control panel can be connected to HettInfo through an online kit.

Barcodes can be captured and documented through the use of a barcode kit or an external barcode kit. In addition to barcodes on blood bags, user data can also be captured via barcodes. This ensures full traceability and saves time and labour.



Key to symbols:



Capture of centrifuge data



Scanning of barcodes

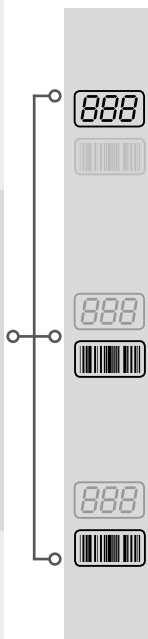
Data distributors

With HettInfo, up to 29 centrifuges can be controlled by a single PC.

Data distributors ordered with the centrifuges are pre-installed and conform with the number of participants. Robust optical cables for connecting the participants are included in delivery. Everything is provided for start-up.

ROTO SILENTA 630 RS and ROTIXA 500 RS centrifuges can be retrofitted for connection to HettInfo at any time.

Article	Cat. No.	Scope of supply
HettInfo Basic Kit	0910-F^{c)}	Software with all functions (full version), fibre-optic cable ^{b)} for connection to one participant or distributor, RS 232 cable, opto data box
HettInfo Light Basic Kit	0910-L^{c)}	Software with limited functionality, fibre-optic cable ^{b)} for connection to one participant or distributor, RS 232 cable, opto data box
Online Kit ROTO SILENTA 630 RS	0951-10	Opto interface for a ROTO SILENTA 630 RS centrifuge
Online Kit ROTIXA 500 RS	0941-10	Opto interface for a ROTIXA 500 RS centrifuge
Barcode Kit ROTO SILENTA 630 RS	0950-10^{d)}	Front panel for ROTO SILENTA 630 RS with barcode unit and barcode scanner
Barcode Kit external for a packing room or for use on a centrifuge with C or S control panel and Online Kit	0915-10^{d)}	Barcode station with barcode scanner
Distributor, small	0911-10	For connection of max. 8 participants
Distributor, large	0912-10	For connection of max. 15 participants
Connection-Kit	0913-10	For connection of 1 participant, with fibre-optic cable ^{a)}

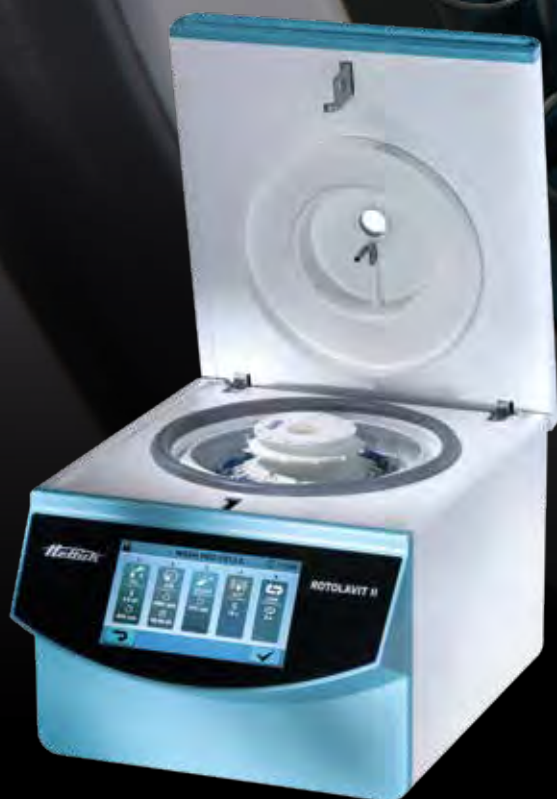


a) Fibre-optic cable in standard length (10 metres). Other lengths on request.
b) Fibre-optic cable in standard length (20 metres). Other lengths on request.

c) 100 - 240 V version, 50 - 60 Hz.
d) 230 V version. Other voltages on request.

CELL WASHER

Automated cell washing centrifuge



ROTOLAVIT II
on page 156



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.

— FIELDS OF APPLICATION

- Hospitals
- Hematological labs
- Blood centers
- Clinical labs



according to directive 98/79/EC

TECHNICAL DATA

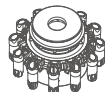
ROTOLAVIT II	
voltage	100 – 240 V 1 ~
frequency	50 – 60 Hz
consumption	144 VA
emission, immunity	EN/IEC 61326-3-2 / FCC CFR47 part 15, ed 2015-04-21 (e-CFR) class B
max. capacity	24 standard tubes (10 x 75 mm or 12 x 75 mm)
max. RPM	3,500 min ⁻¹
max. RCF	1,438
radius (both rotors)	105 mm
dimensions (HxWxD)	330x480x280 mm
weight	approx. 24.5 kg
max. noise level	≤ 49 dB (A)
Cat. No.	1008-00
11 – 30 V 1 ~ / DC ¹⁾	1008-03
consumption	144 VA

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	158
	swing-out rotor, 24-place	45°	3,500 min	24 x (10x75 mm* or 12x75 mm) * Tubes requires adapter No. 1019	1018-A	158

— 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



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
Cat. No.	tubes²⁾	



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



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
Cat. No.	tubes²⁾	



Adapter

		
boring Ø x L in mm	-	-
vessels per rotor	24	24
Cat. No.	1019 (12 pcs.)	-



INCUBATORS

Efficient use of valuable space



HETTCUBE 200 | 200 R
on page 162



HETTCUBE 400 | 400 R
on page 162



HETTCUBE 600 | 600 R
on page 162

06



THE NEW HETTCUBE GENERATION

Now with touchscreen and more options

With the new 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.

— FIELDS OF APPLICATION

- Microbiological labs
- Hospital labs
- Pharmaceutical labs
- Food analyzing labs
- Scientific labs in universities
- Cosmetic industry
- Food and beverage
- Agricultural industry
- Life Science



according to directive 98/79/EC



* also available without IVD

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 bushing 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 m²	0,6	0.6	0.6
Weight in kg	92 103	117 128	164 175
Number of trays 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	0,045 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
Non-IvD version	62001 62006	64001 64006	66001 66006
120 V 1 ~ / 50 – 60 Hz	62000-01 62005-01	64000-01 64005-01	66000-01 66005-01
Weight in kg*	97 108	122 133	169 180
Energy consumption at +37 °C*	0,04 kWh/h	0.05 kWh/h	0.06 kWh/h
Noise level*	≤ 42 dB (A) ≤ 44 dB (A)	≤ 42 dB (A) ≤ 44 dB (A)	≤ 42 dB (A) ≤ 44 dB (A)

Other voltages on request.

*All other data are the same as for the product versions with standard voltage (220 – 240 V 1 ~ / 50 – 60 Hz). All temperature values were ascertained at an ambient temperature of + 22 °C in accordance with DIN 12880:2007-5. The data apply for incubators with standard features.

— MORE OPTIONS AND ACCESSORIES



— NEW

Switchboard



— NEW

Rack for petri dishes



— NEW

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, pull out up to 70 %, max. load (kg): 40	60031
Drawer (HTS-Set), High 30 mm Made of stainless steel, with telescopic rails, pull out up to 70 %, tightly welded, max. load (kg): 40	60024
Drawer (HTS-Set), High 65 mm Made of stainless steel, with telescopic rails, pull out up to 70 %, tightly welded, max. load (kg): 40	60025
Drawer (HTS-Set), High 105 mm Made of stainless steel, with telescopic rails, pull out up to 70 %, tightly welded, max. load (kg): 40	60026
Rack (HTS-Set) For Petri dishes, stainless steel, with telescopic rails, pull out 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, pull out up to 70 %, inclination angle: 5°, tube Ø (mm): 15-20, max. load (pcs): 81 tube	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 4 pole connection on the back of the device	60504
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
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

EXTENSIVE STANDARD EQUIPMENT



4.3 inch touchscreen



Shelf (HTS-Set) with telescopic rails



Bushing 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

Compensation for unneeded standard shelves*

* Choose other shelves / drawers as standard, we credit you the price of unused standard inserts.

— EVERYTHING UNDER CONTROL



INTUITIVE OPERATION WITH THE NEW 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.

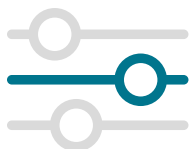


EASY WEEKLY PROGRAMMING

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

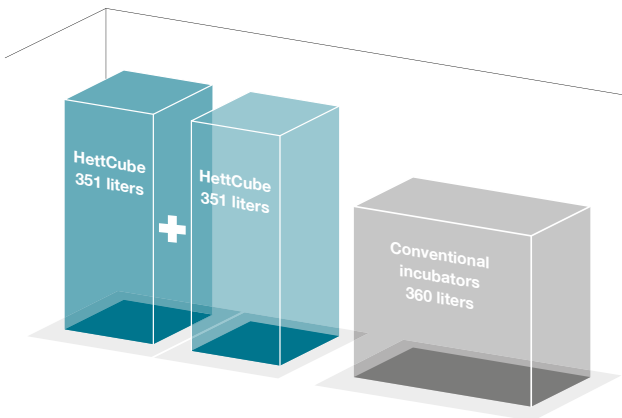
30 % MORE VALIDATED USABLE SPACE

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

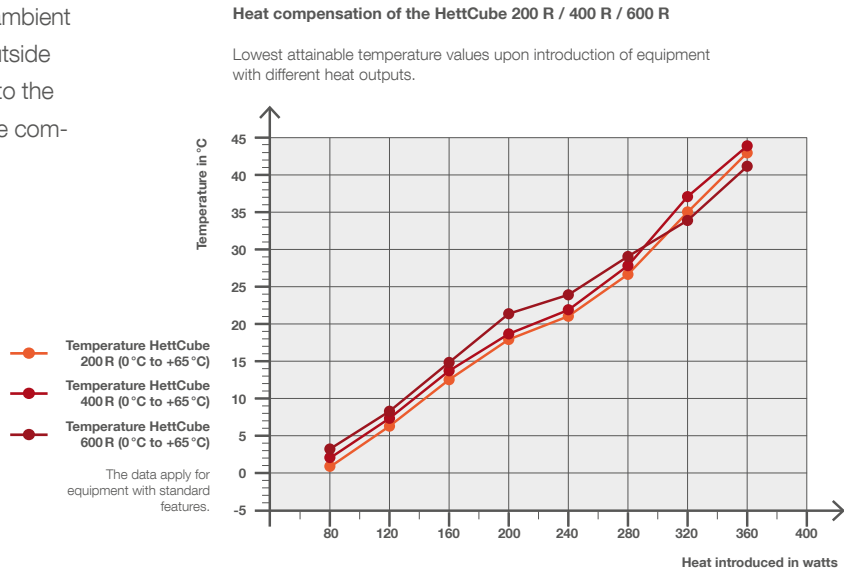
360 liters of validated usable space

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.

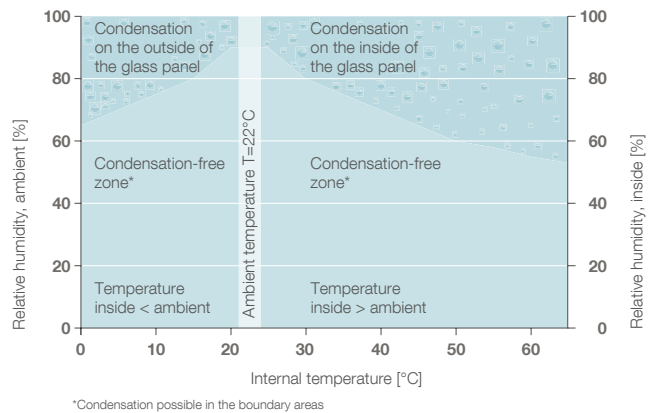


HETTCUBES WITH GLASS DOOR

The optional glass door enables users to check on their cultures without opening the door.



Condensation diagram for HettCubes size 200/400/600 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 0.05 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



according to directive 90/269/EEC



Certifications

Hettich products comply with all applicable safety regulations, carry the TÜV seal and are compliant with IVD. 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.

DID YOU KNOW?

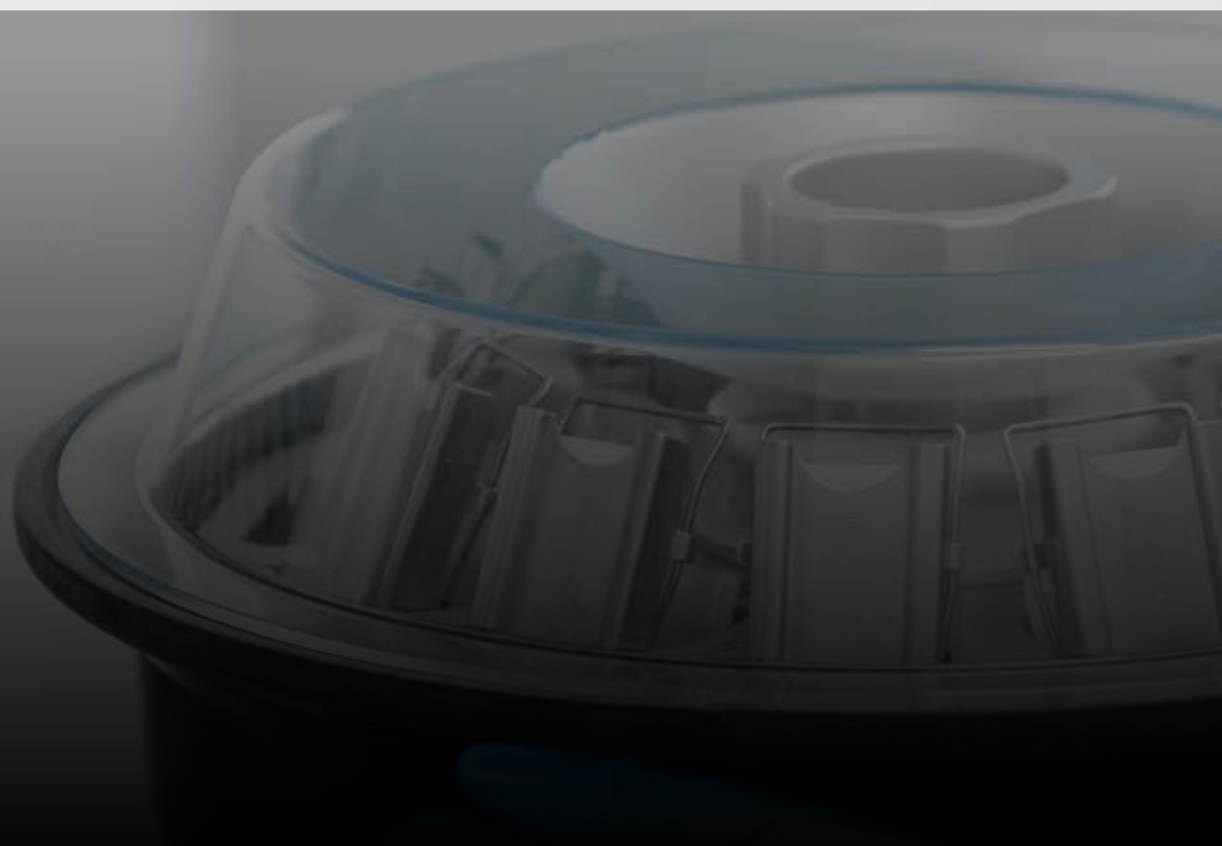
The Download Center on our website allows you to access the most up to date documents including catalogs, brochures, data sheets and certificates.

Try it now: www.hettichlab.com/downloadcenter



EQUIPMENT

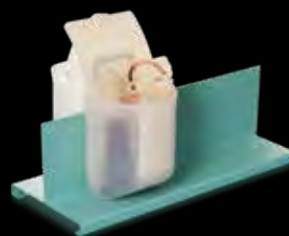
The useful addition



CYTO SYSTEM
on page 174



ROLLING CABINET
on page 179



BLOOD BANK
ACCESSORIES
on page 179



07

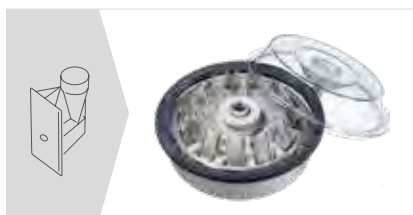
HETTICH CYTO SYSTEM

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 – all IvD-compliant according to EU Directive 98/79/EC.

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 and 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:

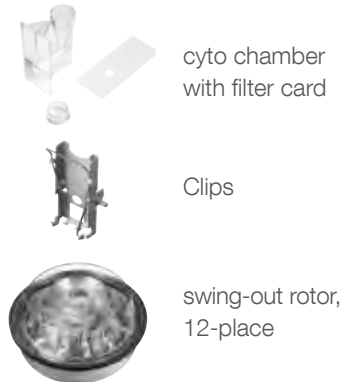
ROTOFIX 32 A | ROTINA 420 / 420 R |
UNIVERSAL 320 / 320 R

Benefits:

- Easy handling
- Ideal for small sample volumes
- Can be used with and 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

BESTSELLER

SYSTEM 2



lid


ring

cyto chamber, 1 ml

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 32A |
UNIVERSAL 320 / 320 R

max. RPM max. RCF	2.000 min ⁻¹ 438
max. capacity	12 cyto chambers
run-up run-down, braked in sec	19 18
Angle	90°
Cat. No.	1515-A



Lid bioseal[®]

Cat. No. **INCLUSIVE**



Stand

Cat. No. **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.)



Cyto chambers
(re-usable, autoclavable)

capacity in ml	0.5	6 ¹⁰⁾
area in mm ² / (L x W) in mm	28.3	13.4x22
Ø in mm	6	-
Cat. No.	1538 (12 pcs.)	1536 (12 pcs.)



Clips
(autoclavable)

Cat. No. **1524 (4 pcs.)** **1524 (4 pcs.)**



Clips
(autoclavable)

Cat. No. **1524 (4 pcs.)** **1524 (4 pcs.)**



Filter cards

Cat. No. **filter card white (inclusive)** **filter card brown (inclusive)**



Filter cards / seals

Cat. No. **1539 (200 pcs.)** **1537 (100 pcs.)**



SYSTEM 2 – rotors and equipment

— SWING-OUT ROTOR

Swing-out rotor, 4-place For ROTOFIX 32A | UNIVERSAL 320 / 320R



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 / 320R



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
-----------------	-------------



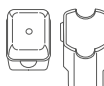
Swing-out rotor, 4-place For ROTINA 380 / 380R



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
-----------------	-------------



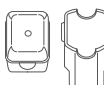
Swing-out rotor, 4-place For ROTINA 420 / 420R



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
-----------------	-------------



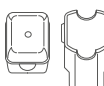
Swing-out rotor, 4-place For ROTANTA 460 / 460R / 460 RC / 460 RF



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
----------	------



Adapter

Cat. No.	5220-A
----------	--------



Adapter

Cat. No.	5280
----------	------



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	90°
Cat. No.	1626



Bucket

lid	1661
-----	------

Cat. No.	1660
-----------------	-------------



Swing-out rotor, 6-place Passend für ROTINA 380 / 380 R

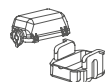
max. RPM max. RCF	4,000 min ⁻¹ 2,003
max. capacity	12 cyto chambers
run-up run-down, braked in sec	19 18
angle temperature in °C ¹⁾	90° -6
Cat. No.	1726



Bucket

lid	1661
-----	------

Cat. No.	1660
-----------------	-------------



Swing-out rotor, 6-place For ROTANTA 460 | 460 R | 460 RC | 460 RF

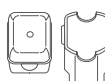
max. RPM max. RCF	4,000 min ⁻¹ 3,291
max. capacity	24 cyto chambers
run-up run-down, braked in sec	38 46
angle temperature in °C ¹⁾	90° 0
Cat. No.	4446



Bucket

lid	5053
-----	------

Cat. No.	5051
-----------------	-------------



Adapter

Cat. No.	5280
----------	------



Swing-out rotor, 6-place For ROTIXA 500 RS

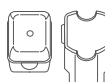
max. RPM max. RCF	4,000 min ⁻¹ 3,274
max. capacity	24 cyto chambers
run-up run-down, braked in sec	33 50
angle temperature in °C ¹⁾	90° 0
Cat. No.	4296



Bucket

lid	5053
-----	------

Cat. No.	5051
-----------------	-------------





































Adapter

Cat. No.	5280
----------	------







— 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 pcs.)	1664 (100 pcs.)	1665 (100 pcs.)	1666 (100 pcs.)	1667 (100 pcs.)	1668 (100 pcs.)
 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 pcs.)	1672 (100 pcs.)	1673 (100 pcs.)
 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.

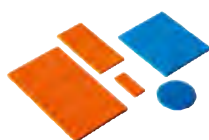
ACCESSORIES FOR CENTRIFUGING BLOOD BAG SYSTEMS



HettLiner

Blood bags can be secured in adapters using HettLiners. After centrifuging, they can be removed by their loops without disturbing the sediment.

Cat. No. 4564



Set of compensatory weights

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



AUTOMATED CENTRIFUGES

We are the world leader in automated centrifuges

Since the introduction of the first robotically integrated centrifuges over 25 years ago, Hettich is still setting 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 three different automationfriendly models – each designed for reliable performance in high-use automation settings.



08

Find more information in our special brochure or on our website at
www.hettichlab.com

SERVICE

Responsibility for years

09



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** Consulting and qualification locally.
- 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.

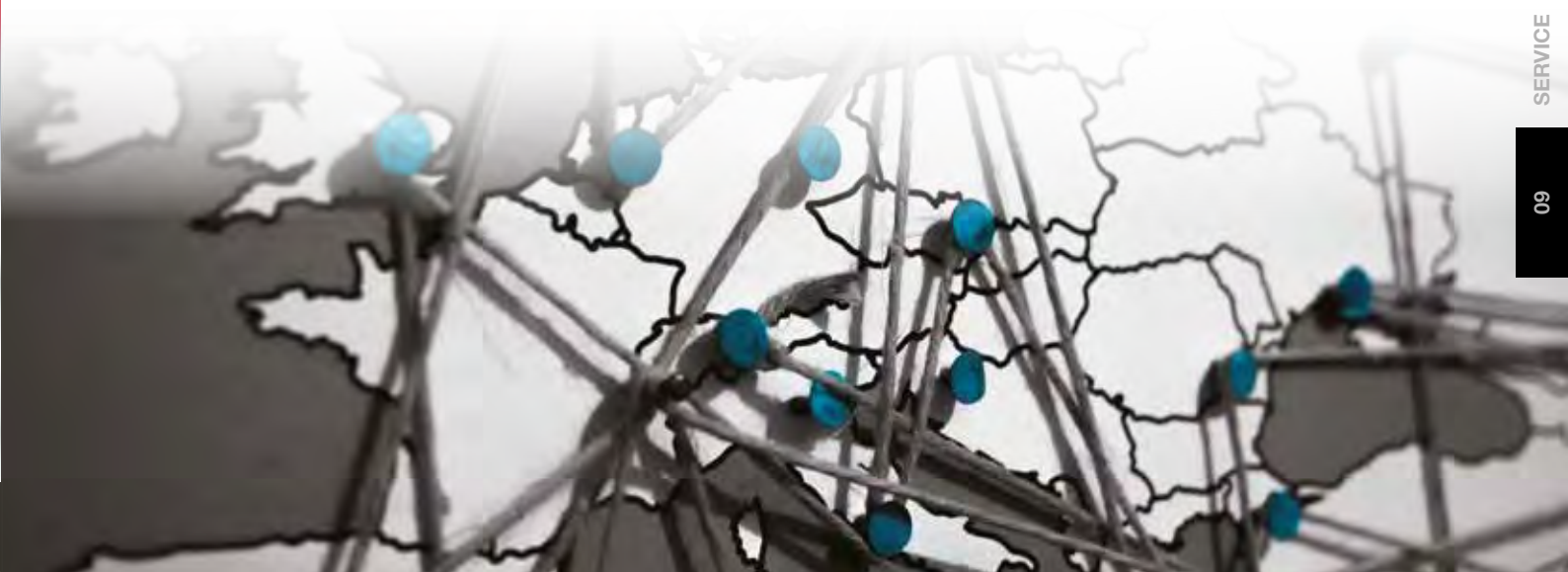
In addition to our German headquarters our subsidiaries reside in many European countries, in the USA and in Singapore for the Asean region. You can find an overview of an authorized service provider for your country on our Website.

You can reach us through the following email address:



service@hettichlab.com

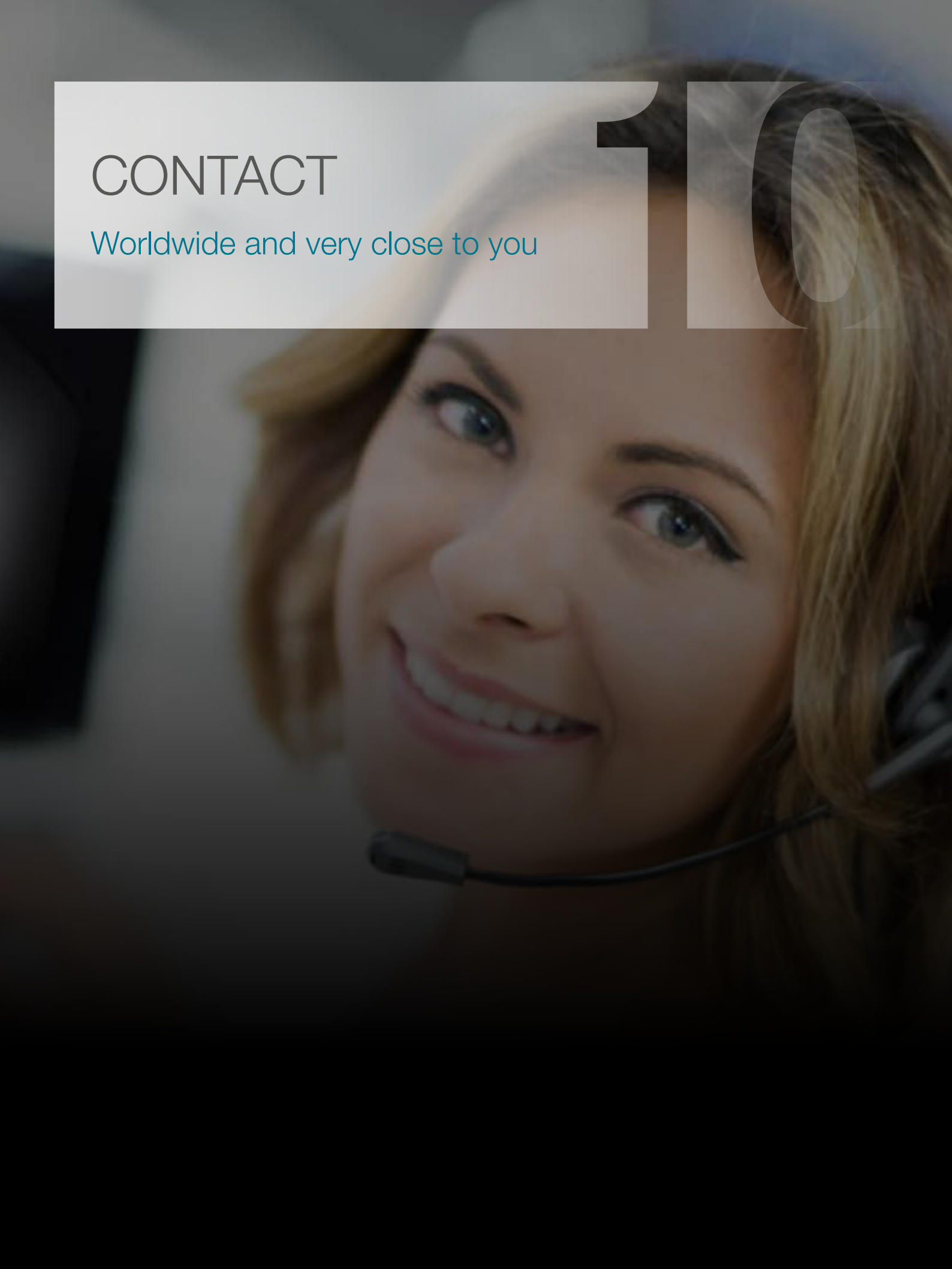
*) Not available in all countries.



CONTACT

Worldwide and very close to you

10



CONTACT

The perfect choice of equipment, general information, services or current offers: you can find out all you need from our global customer service.

Select your direct contact person by area or search our contact directory on www.hettichlab.com/contact



YOUR CONTACT OPTIONS BY AREA

UK, BALTIC STATES,
SPAIN, SCANDINAVIA

✉ sales1@hettichlab.com ☎ + 49 7461 705 1402

ITALY, BALKANS,
EASTERN EUROPE

✉ sales1@hettichlab.com ☎ + 49 7461 705 1402

RUSSIA, UKRAINE,
BELARUS, POLAND

✉ sales1@hettichlab.com ☎ + 49 7461 705 1402

AFRICA

✉ sales2@hettichlab.com ☎ + 49 7461 705 1403

MIDDLE EAST

✉ sales2@hettichlab.com ☎ + 49 7461 705 1403

INDIA, PAKISTAN

✉ sales3@hettichlab.com ☎ + 49 7461 705 1404

ASIA-PACIFIC

✉ sales3@hettichlab.com ☎ + 49 7461 705 1404

NORTH- / SOUTH
AMERICA

✉ sales3@hettichlab.com ☎ + 49 7461 705 1404

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).

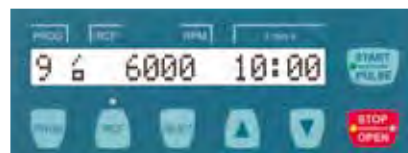
DISPLAY

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 1 – 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 152-153.

PACKAGES – ALL IN ONE

Get everything you need for your application in one package! Save time and stop searching for the right combination of accessories. Our centrifuge packages combine everything for the most common applications, making ordering easy for you. The packages include centrifuge, rotor, hanger and adapter – everything you need for your application.

EBA 200 PACKAGE 1	1800SET2	number of vessels	volume (ml)	size (mm)	RPM	RCF
- 1 x EBA 200 centrifuge incl. angle rotor	1800	8	1.6 - 5	13 x 75	6,000	2,697
- 8 x adapter	1059	8	4 - 7	13 x 100	6,000	3,461
- 8 x adapter	1058	8	8.5 - 10	16 x 100	6,000	3,461
		4	8	16 x 125	6,000	3,461

EBA 200 S PACKAGE 1	1802SET1	number of vessels	volume (ml)	size (mm)	RPM	RCF
- 1 x EBA 200 S centrifuge incl. angle rotor, 8-place	1802	8	1.6 - 5	13 x 75	8,000	4,794
- 8 x adapter	1054-A	8	4 - 7	13 x 100	8,000	6,153
- 8 x adapter	1058	8	8.5 - 10	16 x 100	8,000	6,153
		8	8	16 x 125	8,000	6,153

EBA 270 PACKAGE 1	2300SET1	number of vessels	volume (ml)	size (mm)	RPM	RCF
- 1 x EBA 270 centrifuge incl. swing-out rotor	2300	6	1.6 - 7 / 100	13 x 75	4,000	1,807
- 6 x bucket	2333-6	6	4 - 10 / 100	13 x 100	4,000	2,254
- 6 x bucket	2331-6	6	0.5 Pediatric	10,7 x 36	4,000	1,359
- 6 x adapter Pediatric	1063-6	6	12 (Kova)	17 x 102	4,000	2,254

EBA 280 PACKAGE 1	1101SET2	number of vessels	volume (ml)	size (mm)	RPM	RCF
- 1 x EBA 280 centrifuge	1101	6	1.6 - 5	13 x 75	4,700	2,618
- 1 x swing-out rotor, 6-place	1146	6	4 - 7	13 x 100	4,700	3,112
- 6 x bucket	1147-6	6	4 - 7	16 x 75	4,700	2,865
- 6 x adapter	1053-6	6	8.5 - 10	16 x 100	4,700	3,112
- 6 x adapter	1058	6				
- 6 x spacer	0767-6					

EBA 280 PACKAGE 2	1101SET1	number of vessels	volume (ml)	size (mm)	RPM	RCF
- 1 x EBA 280 centrifuge	1101	12	1.6 - 5	11 / 12 / 13 x 75	5,000	2,963
- 1 x swing-out rotor, 12-place	1142					
- 12 x bucket	1127-A					

EBA 280 PACKAGE 3	1101SET3	number of vessels	volume (ml)	size (mm)	RPM	RCF
- 1 x EBA 280 centrifuge	1101	12	1.6 - 5	13 x 75	6,000	3,300
- 1 x angle rotor, 12-place	1139	12	4 - 7	13 x 100	6,000	3,300
- 12 x bucket	1059	12	4 - 10	16 x 75	6,000	4,146
- 12 x bucket	1058	12	8.5 - 10	16 x 100	6,000	4,146

EBA 280 PACKAGE 4	1101SET4	number of vessels	volume (ml)	size (mm)	RPM	RCF
- 1 x EBA 280 centrifuge	1101	8	1.6 - 5	13 x 75	5,000	2,991
- 1 x swing-out rotor, 8-place	1148	8	4 - 7	16 x 75	5,000	2,991
- 8 x bucket	1131-A					
- 8 x bucket	1132-A					



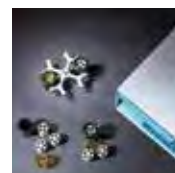
EBA 280 PACKAGE 5	1101SET5	number of vessels	volume (ml)	size (mm)	RPM	RCF
- 1 x EBA 280 centrifuge	1101	12	5	12 x 75 / 100	5,000	2,879
- 1 x angle rotor, 12-place	1133					



EBA 280 S PACKAGE 1	1102SET1	number of vessels	volume (ml)	size (mm)	RPM	RCF
- 1 x EBA 280 S centrifuge	1102	6	1.6 - 5	13 x 75	6,000	4,266
- 1 x angle rotor, 6-place	1146	6	4 - 7	13 x 100	6,000	5,071
- 6 x bucket	1147-6	6	4 - 7	16 x 75	6,000	4,699
- 6 x adapter	1053-6	6	8.5 - 10	16 x 100	6,000	5,071
- 6 x adapter	1058					
- 6 x spacer	0767-6					



ROTOFIX 32 A PACKAGE 1	1206SET1	number of vessels	volume (ml)	size (mm)	RPM	RCF
- 1 x ROTOFIX 32 A centrifuge	1206	20	1.6 - 7	13 x 75 / 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	1492					
- 4 x adapter	1383					
- 4 x adapter	1348					



UNIVERSAL 320 PACKAGE 1	1401SET1	number of vessels	volume (ml)	size (mm)	RPM	RCF
- 1 x UNIVERSAL 320 centrifuge	1401	28	1.6 - 7	13 x 75 / 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	1438					
- 4 x adapter	1441					



UNIVERSAL 320 PACKAGE 2	1401SET2	number of vessels	volume (ml)	size (mm)	RPM	RCF
- 1 x UNIVERSAL 320 centrifuge	1401	28	1.6 - 7	13 x 75 / 100	4,500	3,215
- 1 x swing-out rotor, 4-place	1554	28	4 - 10	16 x 75 / 100	4,500	3,215
- 4 x bucket	1560					
- 4 x lid (bioseal)	1561					
- 4 x adapter	1589					
- 4 x adapter	1588					



UNIVERSAL 320 R PACKAGE 1	1406SET1	number of vessels	volume (ml)	size (mm)	RPM	RCF
- 1 x UNIVERSAL 320 R centrifuge	1406	8	15	17 x 120	4,500	3,328
- 1 x swing-out rotor, 4-place	1554	4	50	29 x 115	4,500	3,328
- 4 x bucket	1560					
- 4 x lid (bioseal)	1561					
- 4 x adapter	1577					
- 4 x adapter	1579					



UNIVERSAL 320 R PACKAGE 2	1406SET2	number of vessels	volume (ml)	size (mm)	RPM	RCF
- 1 x UNIVERSAL 320 R centrifuge	1406	28	1.6 - 5	13 x 75 / 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	1438					
- 4 x adapter	1441					



ROTINA 380 PACKAGE 1	1701SET1	number of vessels	volume (ml)	size (mm)	RPM	RCF
- 1 x ROTINA 380 centrifuge	1701	64	1.6 - 7	13 x 75 / 100	5,000	4,668
- 1 x swing-out rotor, 4-place	1754	52	4 - 10	16 x 75 / 100	5,000	4,668
- 4 x bucket	1752					
- 4 x lid (bioseal)	1751					
- 4 x adapter	1783-A					
- 4 x adapter	1763-A					



PACKAGES – ALL IN ONE

BENCHTOP CENTRIFUGES

ROTINA 420 PACKAGE 1	4701SET1	number of vessels	volume (ml)	size (mm)	RPM	RCF
- 1 x ROTINA 420 centrifuge	4701	104	1,6 - 7	13 x 75 / 100	4.800	4.585
- 1 x swing-out rotor, 4-place	4784-A	72	4 - 10	16 x 75 / 100	4.800	4.585
- 4 x bucket	4780					
- 4 lid (bioseal)	4783					
- 4 x adapter	4762					
- 4 x adapter	4763					

ROTINA 420 R PACKAGE 1	4706SET1	number of vessels	volume (ml)	size (mm)	RPM	RCF
- 1 x ROTINA 420 R centrifuge	4706	104	1,6 - 7	13 x 75 / 100	4.800	4.585
- 1 x swing-out rotor, 4-place	4784-A	72	4 - 10	16 x 75 / 100	4.800	4.585
- 4 x bucket	4780					
- 4 lid (bioseal)	4783					
- 4 x adapter	4762					
- 4 x adapter	4763					

ROTANTA 460 R PACKAGE 1	5660SET1	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 lid (bioseal)	4883					
- 4 x adapter	4468					
- 4 x adapter	4469					

ROTO SILENTA 630 RS PKG. 1	5005SET1	number of vessels	volume (ml)	size (mm)	RPM	RCF
- 1 x ROTO SILENTA 630 RS centrifuge	5005	6	500 / 750 / 1.000	-	4.500	6.452
- 1 x swing-out rotor, 6-place	4176					
- 6 x bucket	4523-A					
- 6 x insert	4516-A					

ROTO SILENTA 630 RS PKG. 2	5005SET2	number of vessels	volume (ml)	size (mm)	RPM	RCF
- 1 x ROTO SILENTA 630 RS centrifuge	5005	12	500 / 750	-	4.500	6.498
- 1 x swing-out rotor, 6-place	4176					
- 6 x bucket	4524-A					
- 6 x insert	4592-B					

ROTO SILENTA 630 RS PKG. 3	5005SET3	number of vessels	volume (ml)	size (mm)	RPM	RCF
- 1 x ROTO SILENTA 630 RS centrifuge	5005	12	450 / 500	-	4.500	6.316
- 1 x swing-out rotor, 6-place	4176					
- 6 x bucket	4547-B					
- 6 x lid	5621					
- 6 x insert	4548					

FLOORSTANDING CENTRIFUGES



MODEL VARIANTS FOR SPECIAL REQUIREMENTS

The following variants of the refrigerated models UNIVERSAL 320 R, ROTINA 380 R, ROTINA 420 R, ROTANTA 460 R/RC/RF, ROTIXA 500 RS and ROTO SILENTA 630 RS are available:

Variants with connection for nitrogen (N₂) flushing:
For centrifugation of reactive substances or substances which are unstable in aerial oxygen. If required, customers should install an oxygen concentration monitor.

Heating/cooling variants (H/C):
For applications demanding temperatures above 40 °C, such as mineral oil testing according to ASTM, material endurance tests, etc.

The heating/cooling variants of the UNIVERSAL 320 R feature no cooling unit and no built-in heater. An external refrigerated/heating circulator must be provided by the customer. Depending on the circulator performance, the centrifuge is able to heat/refrigerate in a range from 0 °C to +90 °C.













The floorstanding ROTO SILENTA 630 RS and ROTIXA 500 RS centrifuges are also available as variants with internal cooling unit or for connection to external cooling units, and as GMP versions.












	Variant	Power supply*	Frequency	Cat. No.
UNIVERSAL 320 R	N ₂ flushing	200–240 V	50 Hz	1406-20
		240 V	60 Hz	
UNIVERSAL 320 R	N ₂ flushing	115–127 V	60 Hz	1406-21
UNIVERSAL 320 R**	H/C to +90 °C	200–240 V	50–60 Hz	1406-50
UNIVERSAL 320 R**	H/C to +90 °C	100–127 V	50–60 Hz	1406-51
UNIVERSAL 320 R**	H/C to +90 °C plus N ₂ flushing	200–240 V	50–60 Hz	1406-70
UNIVERSAL 320 R**	H/C to +90 °C plus N ₂ flushing	100–127 V	50–60 Hz	1406-71
ROTINA 380 R	H/C to +90 °C	200–240 V	50–60 Hz	1706-50
ROTINA 420 R	N ₂ flushing	200–240 V	50 Hz	4706-20
ROTINA 420 R	H/C to +90 °C	200–240 V	50 Hz	4706-50
ROTANTA 460 R	N ₂ flushing	200–240 V	50 Hz	5660-20
ROTANTA 460 R	H/C to +90 °C	200–240 V	50 Hz	5660-50
		100–127 V	60 Hz	
ROTANTA 460 R	H/C to +90 °C	100 V	50 Hz	5660-51
		200–240 V	50 Hz	
ROTANTA 460 R	H/C to +90 °C plus N ₂ flushing	200–240 V	50 Hz	5660-70
ROTANTA 460 RC	H/C to +90 °C	200–240 V	50 Hz	5670-50
ROTANTA 460 RF	H/C to +90 °C	200–240 V	50 Hz	5675-50
ROTIXA 500 RS	H/C to +60 °C	230–240 V	50 Hz	4950-50
ROTIXA 500 RS	GMP, internal cooling unit with water-cooled condenser	220–240 V	50–60 Hz	4950-80
ROTO SILENTA 630 RS	N ₂ flushing	400 V 3~ +N	50–60 Hz	5005-20
ROTO SILENTA 630 RS	H/C to +90 °C	400 V 3~ +N	50–60 Hz	5005-50
ROTO SILENTA 630 RS	brine cooling	400 V 3~ +N	50–60 Hz	5005-60
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

*) Other voltages on request.

**) An external refrigerated / heating circulator must be provided by the customer.

CAPACITY OF THE CENTRIFUGES

Important 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									
	W x D x H 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 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 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
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	-	-	-	-	-	-	-	-	-
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	-	-		
29x 115/115	60x162/ 96x147	61x122/ 62x137	97x 139/152	96x176	150x100 x180	128x15 x86	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
-	-	-	-	-	-	-	-	-	-	2,254	4,000
3 / -	-	-	-	-	-	-	-	-	-	4,146 5,071	6,000
-	-	-	-	-	-	-	-	-	-	18,845	14,000
-	-	-	-	-	-	-	-	-	-	21,382	15,000
3/ -	-	-	-	-	-	-	-	-	-	31,514	18,000
8	-	-	-	-	-	-	-	6	12	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
16	on request					6	on request			4,696	5,100
24	on request					12	on request			6,446	6,200
-	-	-	-	-	-	-	-	-	-	1,438	3,500

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 200 200 S		•	•	•	•	•			•	•		•
EBA 270		•	•	•	•	•			•	•	•	
EBA 280 280 S		•	•	•	•	•			•	•	•	
HAEMATOKRIT 200		•	•	•	•	•			•	•		•
MIKRO 185		•	•	•	•	•			•	•		•
MIKRO 200	•		•	•	•	•		•	•	•	•	
MIKRO 200 R	•		•	•	•	•		•	•	•	•	
MIKRO 220	•		•	•	•	•		•	•	•	•	
MIKRO 220 R	•		•	•	•	•		•	•	•	•	
ROTOFIX 32A	•		•	•	•	•			•	•	•	
UNIVERSAL 320	•		•	•	•	•		•	•	•	•	
UNIVERSAL 320 R	•		•	•	•	•		•	•	•	•	
ROTINA 380	•		•	•	•	•		•	•	•	•	
ROTINA 380 R	•		•	•	•	•		•	•	•	•	
ROTINA 420	•		•	•	•	•		•	•	•	•	
ROTINA 420 R	•		•	•	•	•		•	•	•	•	
ROTANTA 460 460 R	•		•	•	•	•		•	•	•	•	
ROTOFIX 46	•		•	•	•		•		•	•	•	
ROTOFIX 46 H	•		•	•	•		•		•	•	•	
ROTANTA 460 RC 460 RF	•		•	•	•	•		•	•	•	•	
ROTIXA 500 RS	•		•	•	•	•		•	•	•	•	
ROTO SILENTA 630 RS	•		•	•	•	•		•	•	•	•	
ROTOLAVIT II	•		•	•	•	•			•	•		
Robotic centrifuges	Details on our models MIKRO 220 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	•	•		•	EBA 270
	•			•	•	•	M	•	•		•	EBA 280 280 S
	•					•	E plus	•	•		•	HAEMATOKRIT 200
	•					•	E plus	•	•		•	MIKRO 185
	•					•	N plus	•	•		•	MIKRO 200
		• #)				•	N plus	•	•		•	MIKRO 200 R
	•			•		•	N plus	•	•		•	MIKRO 220
		•		•		•	N plus	•	•		•	MIKRO 220 R
	•			•		•	E	•	•		•	ROTOFIX 32 A
	•			•		•	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

CERTIFICATES / REGISTRATIONS

Hettich centrifuges and incubators fulfill all applicable EC directives that apply to you. 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.



IVD-conform

Medical Device In-Vitro Diagnostic (IvD) according to EU Directive 98/79/EC



Medical device

Medical device according to EU Directive 93/42/EEC



EN ISO 13485

Quality management system according to ISO 13485



ISO 9001

Quality management system according to ISO 9001



ISO 14001

Environmental management system according to ISO 14001

	IVD-conform	Medical device	EN ISO 13485	ISO 9001	ISO 14001
EBA 200 200 S	•		•		•
EBA 270	•		•		•
EBA 280 280 S	•		•		•
HAEMATOKRIT 200	•		•		•
MIKRO 185	•		•		•
MIKRO 200 200 R	•		•		•
MIKRO 220 220 R	•		•		•
ROTOFIX 32A	•		•		•
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		•	•		•
ROTXA 500 RS		•	•		•
ROTO SILENTA 630 RS		•	•		•
ROTO LAVIT II	•		SQS certified	SQS certified	
HETTCUBE 200 200 R	•		•		•
HETTCUBE 400 400 R	•		•		•
HETTCUBE 600 600 R	•		•		•



General laboratory equipment

General laboratory equipment according to Directive 2014/35/EU for electrical equipment



TÜV SÜD certification mark

Tested device safety in accordance with the high technical requirements in Europe, U.S.A. and Canada



Factory certificate HettCert

Device calibration with the high requirements of Hettich according to ISO 9001 and ISO 13485



Authorized Economic Operator

We are able to offer expedited shipments and customs clearance.















»Made in Germany«

All Hettich products are designed, developed and produced in Germany

	•		•	•	EBA 200 200 S
	•		•	•	EBA 270
	•		•	•	EBA 280 280 S
	•		•	•	HAEMATOKRIT 200
	•		•	•	MIKRO 185
	•		•	•	MIKRO 200 200 R
	•		•	•	MIKRO 220 220 R
	•		•	•	ROTOFIX 32A
	•		•	•	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
	QPS certification mark			Made in Switzerland	ROTOLAVIT II
	•	•	•	•	HETTCUBE 200 200 R
	•	•	•	•	HETTCUBE 400 400 R
	•	•	•	•	HETTCUBE 600 600 R

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	24 x 151	chrome bath tube with stopper	0508
				0529
	30	44 x 105	chrome bath tube	0534
		-	rubber stopper for 0534	0535
	25	24 x 146.5	Schlenk tube	0532
	50	38 x 148.5		0533
	100	37 x 200	ASTM tube (petroleum tester), glass, calibrated	0531 conical
	100	58 x 161		0528 pear-shaped

	Capacity in ml	Area in mm² / (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.)
	0,5	28.3	cyto chambers (re-usable)	1538 (12 pcs.)
	6	13.4 x 22		1532 (12 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.

IMPRINT

Hettich 01.19 | We reserve the right to make technical changes to our products as well as printing errors and colour deviations in our printed matters we reserve ourselves.

Conception: dn.p Marketing + Werbeagentur GmbH, Wittingen | Photography: Jürgen Weisheitinger, Lörrach / Tom Pingel, Hamburg u. Stuttgart | Illustrations: Grafikbüro Christian Islinger, Regensburg | Printing: Typodruck GmbH & Co. KG, Rudolf-Diesel-Straße 9, 78532 Tuttlingen.

NOTES

HETTICH PRODUCT PORTFOLIO



Developed and manufactured in Germany



Ø product life of over 10 years



Spare parts and service for many years to come



Personal and fast advice



Tested and certified products



MIKRO 200 | 200 R

page 36

- Choice of 3 rotors
- IvD-conform according to 98/79/EG
- 4 program storage memories
- Impuls key for short cycle mode

max. RPM: 15,000 min⁻¹
max. RCF: 21,382
max. capacity: 30 x 2 ml
weight: approx. 11.5 kg

max. RPM: 15,000 min⁻¹
max. RCF: 21,382
max. capacity: 30 x 2 ml
weight: approx. 28 kg

2400

2405



MIKRO 220 | 220 R

page 40

- Choice of 7 rotors
- IvD-conform according to 98/79/EG
- 9 Program storage memories
- Impuls key for short cycle mode

max. RPM: 18,000 min⁻¹
max. RCF: 31,514
max. capacity: 60 x 2 ml
weight: approx. 21 kg

max. RPM: 18,000 min⁻¹
max. RCF: 31,514
max. capacity: 60 x 2 ml
weight: approx. 42 kg

2200

2205



ROTOFIX 32 A

page 48

- Choice of 9 rotors
- IvD-conform according to 98/79/EG
- Noise level: 52 dB(A) with rotor 1628
- Impuls key for short cycle mode

max. RPM: 6,000 min⁻¹
max. RCF: 4,226
max. capacity: 4 x 100 ml
weight: approx. 23 kg

1206



ROTIXA 500 RS

page 128

- Choice of 5 rotors
- Medical device according to 93/42/ EWG
- 89 Program storage memories
- 19 individual acceleration and deceleration stages

max. RPM: 11,500 min⁻¹
max. RCF: 18,038
max. capacity: 4 x 1,000 ml
weight: approx. 219 kg

4950



ROTO SILENTA 630 RS

page 142

- Choice of 3 rotors
- Medical device according to 93/42/ EWG
- 89 Program storage memories
- 19 individual acceleration and deceleration stages

max. RPM: 6,000 min⁻¹
max. RCF: 6,520
max. capacity: 6 x 2,000 ml
weight: approx. 355 kg

5005



ROTOLAVIT II

page 156

- Automatic washing centrifuge for serological tests
- Choice of 2 rotors
- IvD-conform according to 98/79/EG
- Simple operation due to intuitive touch screen

max. RPM 3,500 min⁻¹
max. RCF 1,438
max. capacity: 24 x 5 ml
weight: approx. 24.5 kg

1008



MANUAL CENTRIFUGE	page 10	EBA 200 200 S	page 12	EBA 270	page 16
<ul style="list-style-type: none"> - Independent of electricity - Maintenance-free due to self-lubricating gearbox - Clamping device for easy table attachment - Two rotors to choose from (90° or 50°) 		<ul style="list-style-type: none"> - Small centrifuge including 8-place angle rotor - IVD-conform according to 98/79/EG - Noise level: 50 dB(A) in EBA 200 - Impuls key for short cycle mode 		<ul style="list-style-type: none"> - Small centrifuge including 6-place swing-out rotor - IVD-conform according to 98/79/EG - Noise level: 51 dB(A) - Impuls key for short cycle mode 	
max. RPM: 3,000 min ⁻¹ max. RCF: 1,298 max. capacity: 4 x 15 ml weight: approx. 0.9 kg		max. RPM: 6,000 min ⁻¹ max. RCF: 3,461 max. capacity: 8 x 15 ml weight: approx. 9 kg	max. RPM: 8,000 min ⁻¹ max. RCF: 6,153 max. capacity: 8 x 15 ml weight: approx. 11 kg	max. RPM: 4,000 min ⁻¹ max. RCF: 2,254 max. capacity: 6 x 15 ml weight: approx. 14 kg	
1011		1800	1802	2300	



UNIVERSAL 320 320 R	page 60	ROTINA 380 380 R	page 82	ROTINA 420 420 R	page 94
<ul style="list-style-type: none"> - Choice of 18 rotors - IVD-conform according to 98/79/EG - 19 individual acceleration and deceleration stages - Noise level : 48 dB(A) with rotor 1611 		<ul style="list-style-type: none"> - Choice of 8 rotors - IVD-conform according to 98/79/EG - 19 individual acceleration and deceleration stages - 98 program storage memories 		<ul style="list-style-type: none"> - Choice of 5 rotors - IVD-conform according to 98/79/EG - 19 individual acceleration and deceleration stages - 98 program storage memories 	
max. RPM: 16,000 min ⁻¹ max. RCF: 24,900 max. capacity: 4 x 200 ml weight: approx. 31 kg	max. RPM: 16,000 min ⁻¹ max. RCF: 24,900 max. capacity: 4 x 200 ml weight: approx. 52 kg	max. RPM: 15,000 min ⁻¹ max. RCF: 24,400 max. capacity: 4 x 290 ml weight: approx. 51 kg	max. RPM: 15,000 min ⁻¹ max. RCF: 24,400 max. capacity: 4 x 290 ml weight: approx. 81 kg	max. RPM: 15,000 min ⁻¹ max. RCF: 24,400 max. capacity: 4 x 600 ml weight: approx. 75 kg	max. RPM: 15,000 min ⁻¹ max. RCF: 24,400 max. capacity: 4 x 600 ml weight: approx. 108 kg
1401	1406	1701	1706	4701	4706



HETTCUBE 200 400 600			page 160	HETTCUBE 200 R 400 R 600 R			page 160
<ul style="list-style-type: none">- Incubator with a temperature range of 1 K (° C) above ambient to + 65 ° C- Touchscreen with intuitive operation and individual settings- Constant and homogeneous temperature control through gentle air flow- Space miracle - Maximum validated usable space on the smallest footprint				<ul style="list-style-type: none">- Refrigerated incubator with a temperature range of 0 ° C to + 65 ° C- Touchscreen with individual settings, weekly programming with holiday function and more security through various power failure scenarios- Constant and homogeneous temperature control through gentle air flow			
dimensions in mm: 710 x 825 x 970 validated volume: 82 l weight: approx. 92 kg	dimensions in mm: 710 x 825 x 1425 validated volume: 199 l weight: approx. 117 kg	dimensions in mm: 710 x 825 x 1990 validated volume: 351 l weight: approx. 164 kg		dimensions in mm: 710 x 825 x 970 validated volume: 82 l weight: approx. 103 kg	dimensions in mm: 710 x 825 x 1425 validated volume: 199 l weight: approx. 128 kg	dimensions in mm: 710 x 825 x 1990 validated volume: 351 l weight: approx. 175 kg	
62000 62001*	64000 64001*	66000 66001*		62005 62006*	64005 64006*	66005 66006*	

* Non-IVD version



EBA 280 | 280 S

page 20

- Small centrifuge with rotor quick-exchange system
- Choice of 6 rotors
- IvD-conform according to 98/79/EG
- 10 program storage memories

max. RPM: 6.000 min⁻¹
max. RCF: 4.146
max. capacity: 6 x 50 ml
weight: approx. 12 kg

max. RPM: 6.000 min⁻¹
max. RCF: 5.071
max. capacity: 6 x 50 ml
weight: approx. 12 kg

1101

1102

HAEMATOKRIT 200

page 26

- Hematocrit determination in only 7 minutes
- Compact, powerful hematocrit centrifuge
- IvD-conform according to 98/79/EG
- Noise Level: 56 dB(A) with rotor 2056

max. RPM: 13.000 min⁻¹
max. RCF: 16.060
max. capacity: 24 capillaries
weight: approx. 10 kg

1801

MIKRO 185

page 32

- Compact, powerful microliter centrifuge
- Choice of 4 rotors
- IvD-conform according to 98/79/EG
- Noise Level: 54 dB(A) with rotor 1252-A

max. RPM: 14.000 min⁻¹
max. RCF: 18.845
max. capacity: 24 x 2 ml
weight: approx. 11 kg

1203



ROTANTA 460 | 460 R

page 102

- Choice of 8 rotors
- Medical device according to 93/42/EWG
- 28 individual acceleration and deceleration stages
- 98 program storage memories

max. RPM: 15,000 min⁻¹
max. RCF: 24,400
max. capacity: 4 x 750 ml
weight: approx. 101 kg

max. RPM: 15,000 min⁻¹
max. RCF: 24,400
max. capacity: 4 x 750 ml
weight: approx. 141 kg

5650

5660

ROTOFIX 46 | 46 H

page 118

- Robust and versatile industrial centrifuge
- Choice of 4 rotors
- ROTOFIX 46 H heatable up to +90° C
- Noise Level: 38 dB(A) with rotor 4619

max. RPM: 4,000 min⁻¹
max. RCF: 3,095
max. capacity: 4 x 290 ml
weight: approx. 60 kg

max. RPM: 2,000 min⁻¹
max. RCF: 984
max. capacity: 4 x 100 ml
weight: approx. 60 kg

4600

4600-50

ROTANTA 460 RC | 460 RF

page 126

- Choice of 8 rotors
- Medical device according to 93/42/EWG
- 28 individual acceleration and deceleration stages
- 98 program storage memories

max. RPM: 15,000 min⁻¹
max. RCF: 24,400
max. capacity: 4 x 750 ml
weight: approx. 140 kg

max. RPM: 15,000 min⁻¹
max. RCF: 24,400
max. capacity: 4 x 750 ml
weight: approx. 164 kg

5670

5675



ACCESSORIES

- HettInfo
- HettCube accessories
- Cyto accessories
- Rolling cabinets
- Bloodbank accessories

p. 152
p. 164
p. 174
p. 179
p. 179

AUTOMATED CENTRIFUGES

For more information, see our special brochure or visit us on our website at: www.hettichlab.com

FOOTNOTES

- * Other voltages on request.
- ** An external refrigerated circulator must be provided by the customer.
- > Further model variants are available at page 191.

- 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.
- 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 When using these tubes, bucket 1490 cannot be closed with lid 1492.
- 3.1 When using these tubes, bucket 1427 cannot be closed with lid 1421.
- 3.2 When using these tubes, bucket 1560 cannot be closed with lid 1561.
- 3.3 When using these tubes, bucket 1752 or 5051 cannot be closed with lid 1751 or 5053.
- 3.4 When using these tubes, bucket 5051 or 5092 cannot be closed with lid 5053 or 5093.
- 3.5 When using these tubes, bucket 5092 cannot be closed with lid 5053.
- 3.6 When using these tubes, bucket 4780 cannot be closed with lid 4783.
- 3.7 When using these tubes, bucket 4780 or 5051 cannot be closed with lid 4783 or 5053.
- 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.
- 3.10 When using these tubes, bucket 5651-A cannot be closed with lid 5652.
- 3.11 When using these tubes, bucket 5051 cannot be closed with lid 5053.
- 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.
- 3.14 When using these tubes, bucket 4290 cannot be closed with lid 4291.
- 3.15 When using these tubes, bucket 4255 cannot be closed with its lid.
- 3.16 When using these tubes, adapter 4255 cannot be closed with its lid. Further, bucket 5051 cannot be closed with lid 5053.
- 3.17 When using these tubes, bucket 4547-B cannot be closed with lid 5621.
- 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.
- 7 For centrifugation at high speeds, we recommend to use form-fitting, phenol-resistant adapters. Cat. No. 2031.
For centrifugation at high speeds, we recommend to use form-fitting, phenol-resistant adapters Cat. No. 2031. The capacity of Rotor 1158-L is reduced to 40 tubes.
- 8 Adapter (Set), 6-place: for conical 50 ml tubes with screw cap.
- 9 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.
- 10 Not suited for standard capillaries.
- 12 For the EBA 200 only! Model EBA 200 S is supplied as standard with an adapter for these tubes.
- 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.
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.
With the E3906 add-on kit and the 4883 lid, the 4885 carrier can be converted at a later time to a 4880 carrier with single-hand clamp lock.
With the E3906 add-on kit and the 4883 lid, the 4895 carrier can be converted at a later time to a 4890 carrier with single-hand clamp lock.
- 15 Also available with decanting aid. (Cat. No. 5247-91 or 5248-91).
- 16 Packaging unit 10 pieces.
- 17 Packaging unit 15 pieces.
- 18 This is the maximum capacity. The recommended quantity to be used per chamber is 4 ml.
- 19 Two adapters can be placed on each bucket.
- 20 Vacutainers made of glass may not be used.
- 21 Adapter must be loaded as illustrated.
- 23 When using removal frame 4259-A, please take the spacer out of carrier 4257.
- 24 At temperatures of over +40 °C and / or when not filled to capacity, bottles may warp during centrifugation.
- 25 Adapter (set), 6-place: For conical 15 ml tubes with screw cap, remove carriers from rotor and replace them with adapters.
- 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.
- 27 RCF values indicated refer only to rotor performance. The max. RCF for the accommodated cell culture flasks is 2,300.
- 28 For best separation results we recommend the use of the refrigerated model variants ROTANTA 460 R, 460 RC and 460 RF.
- 29 Suitable for blood collection systems with a lid larger than 17 mm in diameter.
- 30 In the heatable models 5660-50, 5660-51, 5660-70, 5670-50 and 5675-50, rotor 4619 may only be used up to a maximum of +40 °C.
- 30 In the heatable models 5660-50, 5660-51, 5660-70, 5670-50 and 5675-50, rotor 5616 may only be used up to a maximum of +40 °C.
- 30 In the heatable ROTOFIX 46 H, rotor 4619 and 5616 may only be used up to a maximum of +40 °C.
- 31 Adapter for accommodating sample tubes and blood collection tubes in carrier 4595-C on request.
Adapter for accommodating sample tubes and blood collection tubes in carrier 4595-C on request.
- 32 Also available on castors.
- Further information will be provided by your dedicated service representative at Hettich. Feel free to visit our Website www.hettichlab.com
- 33 The angled position increases the growth area of the agar, which prevents the drying out of pathogens of the agar cultures with long incubation periods.
- 34 Shandon® is a registered label of the company Thermo Fisher Scientific Inc.
- 35 Depending on the sample.
- 36 Capacity in ml: 8.5-10 Ø x L in mm: 16 x 100.

BENELUX

Hettich Benelux B. V.

De Aaldor 9
NL-4191 PC Geldermalsen
Phone +31 (0)88 2 21 99 00
Fax +31 (0)88 2 21 99 95
info@hettichbenelux.com
www.hettichbenelux.com

FRANCE

Hettich France SÀRL

7, Place de la Gare
F-57200 Sarreguemines
Phone +33 (0)4 72 49 01 62
Fax +33 (0)4 72 24 66 08
info-fr@hettichlab.com
www.hettichlab.com

SWITZERLAND

Hettich AG

Seestr. 204a
CH-8806 Bäch
Phone +41 (0)44 / 786 80 20
Fax +41 (0)44 / 786 80 21
info@hettich.ch
www.hettich.ch

SINGAPORE

Hettich

Asia Pacific Pte. Ltd.

3 Ang Mo Kio Street 62,
#01-47 LINK@AMK
Singapore 569139
Phone +65 6358 3833
Fax +65 6358 3558
info@hettichlab.com.sg
www.hettichlab.com.sg

USA

Hettich Instruments LP

100 Cummings Center, Ste 136L
Beverly, MA 01915
Phone +1 (0)978 / 2 32 39 57
Fax +1 (0)978 / 2 32 39 58
info@hettweb.com
www.hettweb.com

AS WELL AS SELECTED PARTNERS IN
OVER 70 COUNTRIES WORLDWIDE



YOUR HETTICH PARTNER