



ROTANTA 460/460 R

**Benchtop, Underbench and Floorstanding Centrifuges
classic/cooled**

Efficient, results-oriented working processes are top priority in both research and routine laboratories. Advanced laboratory technology makes a significant contribution to shortening processing times.

For decades, ROTANTA centrifuges from Hettich have been distinguished by the highest quality. Excellent performance and an extensive range of accessories guarantee fast, trouble-free operation in daily laboratory use.

With a maximum capacity of 3 litres per run, they are proving themselves in clinics and laboratory centres, as well as in Life Science R & D departments.

For sample processing in clinical chemistry, a wide selection of adapters are available to accommodate the most varied types of tubes. Biotechnology, molecular biology and the pharmaceutical industry value the ROTANTA 460 especially for its autoclavable and aerosoltight accessories.

These versatile benchtop centrifuges feature a filter plate rotor with an RCF of 6,446 for purifying DNA/RNA.

Model variants of the refrigerated ROTANTA 460 R with connection for nitrogen flushing (Cat. No. **5660-20**), as heating/cooling version up to 90 °C (Cat. No. **5660-50**), or as heating/cooling version with connection for nitrogen flushing (Cat. No. **5660-70**), on request.

PERFORMANCE



- High speed with angle rotors:
 - 24,400 RCF with a max. capacity of 30 x 1.5/2.0 ml
 - 18,038 RCF with a max. capacity of 6 x 94 ml
 - 14,025 RCF with a max. capacity of 6 x 250 ml
- High capacity with swing-out rotors:
 - 4 x 750 ml at max. 4,779 RCF
 - 24 microtitre plates / 4 filter plates at max. 4,211 RCF or
 - 12 microtitre plates / 2 filter plates at max. 6,446 RCF
 - 120 blood collection tubes at max. 4,637 RCF

USER-FRIENDLINESS

- Powered lid locking
- Ergonomic control and information panel
- Easy rotor changing
- 98 program storage spaces
- Protection against unauthorized operation / modification of stored programs
- Switch of centrifuge run time from "at start" (commencement at start) to "at speed" (start when nominal speed is attained)
- Special braking ramps for centrifuging blood bags in the refrigerated models
- Program interlocking to combine several centrifugation runs (**optional**)

COOLING (ROTANTA 460 R, 460 RC and 460 RF)

- Infinitely variable adjustment from -20 °C to +40 °C (or -4 °F to +104 °F)
- Stand-by cooling

SAFETY

- | | |
|-------------------------------|--|
| • Imbalance switch-off | • Lid locking and holding during rotor run |
| • Automatic rotor recognition | • Motor overheating protection |
| • Emergency lid lock release | • Chamber overheating protection with (ROTANTA 460 R, 460 RC and 460 RF) centrifuges |
| • Lid dropping protection | |



ROTANTA 460 R
benchtop centrifuge,
cooled

Cat. No. 5660

ROTANTA 460
benchtop centrifuge

Cat. No. 5650

CONTROL PANEL

With the convenient C control panel, even the most challenging centrifugation programs can easily be keyed in, stored and accessed as required.



ROTANTA 460 R, 460 RC and 460 RF control panel (C control panel)

DIGITAL DISPLAY AND CONTROL PANEL

KEYBOARD

START	Start centrifugation run / short centrifuging runs / save entries and changes
	Start pre-cooling program PREC
STOP OPEN	Manually end centrifugation run / Open lid

PARAMETER INPUT

PROG	Input / recall program number 98 programs can be stored
T/°C	Input temperature in increments of 1 from - 20 °C to + 40 °C or - 4 °F to + 104 °F (ROTANTA 460 R, 460 RC und 460 RF)
	Input of acceleration levels 1 – 9 Input of braking levels 1 – 9 Input brake force cut-off
RCF	Input relative centrifugal force (RCF) in increments of 1 Enter centrifuging radius (RAD) in mm
RPM	Input speed in increments of 10
TIME	Input length of centrifugation (max. 99 h : 59 min : 59 sec) or continuous operation



ROTANTA 460 RC
underbench centrifuge,
cooled

Cat. No. 5670

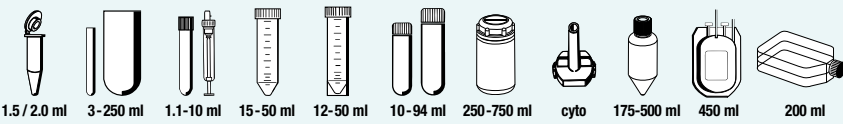
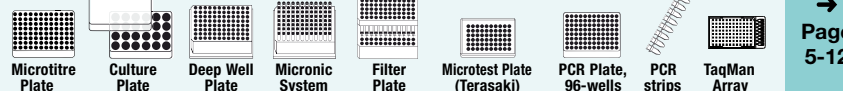
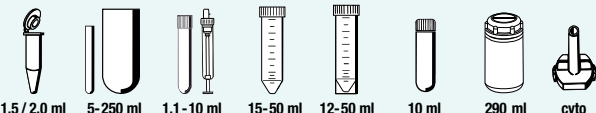
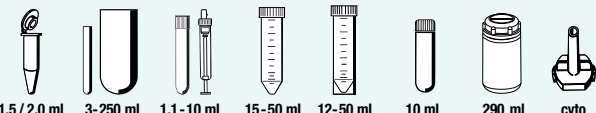
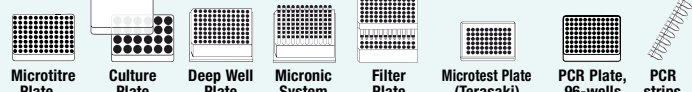
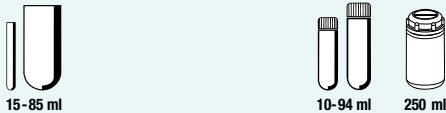
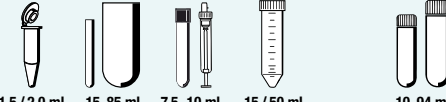


ROTANTA 460 RF
floorstanding centrifuge,
cooled

Cat. No. 5675

ROTORS AND ACCESSORIES

Quick overview of rotors and suitable accessories. The figures highlighted under the arrows refer to the pages where technical and ordering details are listed.

some accessories with biocontainment⁽⁵⁾  Swing-out rotor, 4-place $\angle 90^\circ$ $n = 4,600 \text{ min}^{-1}$ max. RCF 5,063 Cat. No. 5624	 MTP CP DWP MS QP  Microtitre Plate Culture Plate Deep Well Plate Micronic System Filter Plate Microtest Plate (Terasaki) PCR Plate, 96-wells PCR strips TagMan Array → Page 5-12
some accessories with biocontainment⁽⁵⁾  Swing-out rotor, 4-place $\angle 90^\circ$ $n = 4,000 \text{ min}^{-1}$ max. RCF 3,095 Cat. No. 5694	 1.5 / 2.0 ml 5-250 ml 1.1-10 ml 15-50 ml 12-50 ml 10 ml 290 ml cyto → Page 12-14
some accessories with biocontainment⁽⁵⁾  Swing-out rotor, 6-place $\angle 90^\circ$ $n = 4,000 \text{ min}^{-1}$ max. RCF 3,631 Cat. No. 4446	 1.5 / 2.0 ml 3-250 ml 1.1-10 ml 15-50 ml 12-50 ml 10 ml 290 ml cyto → Page 15-17
 Swing-out rotor, 4-place, for ASTM tubes $\angle 90^\circ$ $n = 2,000 \text{ min}^{-1}$ max. RCF 984 Cat. No. 4474	 50/100 ml 100 ml → Page 17
accessories with biocontainment⁽⁵⁾  Swing-out rotor, 2-place $\angle 90^\circ$ $n = 5,900/6,200 \text{ min}^{-1}$ max. RCF 5,838/6,446 Cat. No. 4620	MTP CP DWP MS QP  Microtitre Plate Culture Plate Deep Well Plate Micronic System Filter Plate Microtest Plate (Terasaki) PCR Plate, 96-wells PCR strips → Page 17
lid with biocontainment⁽⁵⁾  Angle rotor, 6-place $\angle 25^\circ$ $n = 8,500/9,500 \text{ min}^{-1}$ max. RCF 11,228/14,025 Cat. No. 5645	 15-85 ml 10-94 ml 250 ml → Page 18
lid with biocontainment⁽⁵⁾  Angle rotor, 30-place $\angle 45^\circ$ $n = 15,000 \text{ min}^{-1}$ max. RCF 24,400 Cat. No. 4489-A	 0.2 - 2.0 ml → Page 18
lid with biocontainment⁽⁵⁾  Angle rotor, 6-place $\angle 45^\circ$ $n = 11,500 \text{ min}^{-1}$ max. RCF 18,038 Cat. No. 5615	 1.5 / 2.0 ml 15-85 ml 7.5-10 ml 15 / 50 ml 10-94 ml → Page 18-19
 Angle rotor, 6-place, for Schlenk tubes $\angle 45^\circ$ $n = 2,000 \text{ min}^{-1}$ max. RCF 805 Cat. No. 5616	 25/50 ml → Page 19
 Swing-out rotor, 6-place, for chrome bath tubes $\angle 90^\circ$ $n = 2,000 \text{ min}^{-1}$ max. RCF 917 Cat. No. 4619	 30 ml → Page 19

Additional tubes e.g. stool tubes or spin columns on request.

ROTORS AND ACCESSORIES

Swing-out rotor, 4-place

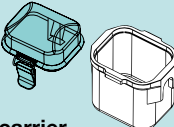
±90°

n = 4,600 min⁻¹
max. RCF 5,063



illustrated with carriers 5620 and lids 5621
with bio-containment⁵⁾

Cat. No. (without carriers) **5624**

capacity in ml	1.5	2.0	3	4	4	5	6	7	10	15	25	50	75	85	
Ø x L in mm	11 x 38		10 x 60	10 x 88	12 x 60	12 x 75	12 x 82	12 x 100	17 x 70	17 x 100	24 x 100	34 x 100	35 x 105	38 x 101	
Cat. No.	2078	0536	-			0553 ²⁾	0501 ²⁾	0578 ²⁾	2079	0518 ²⁾	0519 ²⁾	0521 ²⁾	0548	0549	
lid with bio-containment ⁵⁾ Cat. No. 5627															
															
Cat. No.	4730				4732				4733		4734	4735		4736	
boring Ø x L in mm	11 x 84				13.5 x 84				17.5 x 84		26.5 x 84		36 x 80		42 x 80
tubes per rotor	224		120		80				68		24	12			
max. RCF ²⁾ upper/lower	3,572 / 4,637		4,637										4,495		
radius in mm upper/lower	151 / 196		196										190		
run-up in sec	90														
run-down in sec, braked	95														
temperature in °C ¹⁾	+ 4														

capacity in ml	100	100	250	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
Ø x L in mm	44x100	40x115	65x115	8x66	13x65	11x66	15x75	11x92	13x90	15x92	16x92	15x102
Cat. No.	0526 ²⁾	0523 ²⁾	0530 ²⁾	blood collection/urine tubes								
lid with bio-containment ⁵⁾ Cat. No. 5627												
												
Cat. No.	4737	4736	4738	4730	4732	4733	4732	4733				
boring Ø x L in mm	46x84	42x80	66x80	11x84	13.5x84	17.5x84	13.5x84	17.5x84				
tubes per rotor	8	12	4	120	80	68	80	68				
max. RCF ²⁾	4,637	4,495		4,637								
radius in mm	196	190		196								
run-up in sec	90											
run-down in sec, braked	95											
temperature in °C ¹⁾	+ 4											

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

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

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

ROTORS AND ACCESSORIES



The adapters for carriers 5625 and 5620 are built in layers. For shorter tubes, 1 to 2 layers should be removed. In the tables, the required layers are marked in grey.

Swing-out rotor 5624

capacity in ml	1.6–5	4–7	4–7	8.5–10	14	15	50	12	25	30	50	10	30	50	85	94
Ø x L in mm	13x75	13x100	16x75	16x100	16.5x106	17x120	29x115	17x100	25x90	25x110	29x115	16x80	26x95	29x107	38x106	38x102
Cat. No.	blood collection/urine tubes				-	0509	0513	-				-	0545	0546	0547	0538⁵⁾
lid with bio-containment ⁵⁾ Cat. No. 5627  carrier Cat. No. 5625																
																
Cat. No.	4732	4733	4739⁴⁾	4739	4740	4739⁴⁾	4734	4740⁴⁾	4733	4734	4740⁴⁾	4736	4734	4740⁴⁾	4736	4736
boring Ø x L in mm	13.5x84	17.5x84	17x80	30x80	17x80	26.5x84	30x80	17.5x84	26.5x84	30x80	17.5x84	26.5x84	30x80	42x80	12	
tubes per rotor	80	68	48	20	48	24	20	68	24	20	68	24	20	12		
max. RCF ²⁾	4,637															4,495
radius in mm	196															190
run-up in sec	90															
run-down in sec, braked	95															
temperature in °C ¹⁾	+4															

capacity in ml	1.5	2.0	3	4	4	5	6	7	10	15	25	45	50	75	85	100
Ø x L in mm	11x38	10x60	10x88	12x60	12x75	12x82	12x100	17x70	17x100	24x100	31x100	34x100	35x105	38x101	40x115	
Cat. No.	2078	0536	-	0553²⁾	0501²⁾	0578²⁾	2079	0518²⁾	0519²⁾	-	0521²⁾	0548	0549	0523²⁾		
lid with bio-containment ⁵⁾ Cat. No. 5621  carrier Cat. No. 5620																
																
Cat. No.	4830	4832	4833	4834	4835	4836										
boring Ø x L in mm	11x84	13.5x84	17.5x84	26.5x84	36x80	42x80										
tubes per rotor	192	96	76	28	16	12										
radius in mm upper/lower	3,572 / 4,637	4,637	4,495													
radius in mm upper/lower	151 / 196	196	190													
run-up in sec	90															
run-down in sec, braked	95															
temperature in °C ¹⁾	+4															

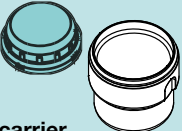
- 1) Lowest attainable temperature in precooled refrigerated centrifuges at max. speed. Lower temperatures can be reached by reducing the speed.
- 2) Please note that the RCF values indicated refer only to rotor performance. The max. permissible RCF of tubes used should be verified with the individual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

ROTORS AND ACCESSORIES



adapter 4833 with
blood collection tubes

Swing-out rotor 5624

capacity in ml	100	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
Ø x L in mm	44x100	65x115	8x66	13x65	13x65	11x66	15x75	11x92	13x90	13x90	15x92	16x92	16x92	15x102	13x75
Cat. No.	0526 ²⁾	0530 ²⁾	blood collection/urine tubes												
lid with bio-containment ⁵⁾ Cat. No. 5621															
															
Cat. No.	4837	4838	4830	4847	4832	4833	4832	4847 ⁴⁾	4833	4848	4833	4847			
boring Ø x L in mm	46x84	66x80	11x84	13.2x61	13.5x84	17.5x84	13.5x84	13.2x61	17.5x84	17.5x61	17.5x84	13.2x61			
tubes per rotor	8	4	96	108	76					108	76	88	76	108	
max. RCF ²⁾	4,637	4,495	4,637	4,116	4,637					4,684	4,637	4,684	4,637	4,116	
radius in mm	196	190	196	174	196					198	196	198	196	174	
run-up in sec	90														
run-down in sec, braked	95														
temperature in °C ¹⁾	+ 4														

capacity in ml	1.6–5	4–7	4–7	4–7	4–7	8	8.5–10	8.5–10	14	15	50	50	12	25	30
Ø x L in mm	13x75	13x100	13x100	16x75	16x75	16x125	16x100	16x100	16.5x106	17x120	29x115	29x115	17x100	25x90	25x110
Cat. No.	blood collection/urine tubes									-	0509	0513	0513	-	-
lid with bio-containment ⁵⁾ Cat. No. 5621															
carrier Cat. No. 5620															
Cat. No.	4832	4847⁴⁾	4833	4848	4833	4848	4839⁴⁾	4839	5647	4840	4839⁴⁾	4834	4834		
boring Ø x L in mm	13.5x84	13.2x61	17.5x84	17.5x61	17.5x84	17.5x61	17x80	30x96.5	30x80	17x80	26.5x84	26.5x84			
tubes per rotor	76	108	76	88	76	88	56	28	20	56	28	28			
max. RCF ²⁾	4,637	4,684	4,637	4,684	4,637	4,684	4,637	4,708	4,637	4,637	4,637	4,637			
radius in mm	196	198	196	198	196	198	196	199	196	196	196	196			
run-up in sec	90														
run-down in sec, braked	95														
temperature in °C ¹⁾	+ 4														

⁶⁾ The screw cap for tube No. 0538 is available with Cat. No. 0539. Dimensions with cap 38 x 106 mm.



ROTORS AND ACCESSORIES



illustrated with carriers 5620
and lids 5621
with bio-containment⁵⁾

Swing-out rotor 5624

capacity in ml	50	50	10	10	30	50	50	85	94	250	290	500	600	750	450	750
Ø x L in mm	29x115	29x115	16x80	16x80	26x95	29x107	29x107	38x106	38x102	61x122	62x137	96x147	93x134	97x152	97x113	93x137
Cat. No.	-	-	-	-	0545	0546	0546	0547	0538 ⁶⁾	5127 ⁷⁾	- ⁷⁾	Corning	0551 ⁷⁾	0512 ⁷⁾	4447	4234
lid with bio-containment⁵⁾ Cat. No. 5621  carrier Cat. No. 5620																
												support cushion 431124 (Corning)			+ 4449 	
Cat. No.	5647 ⁴⁾	4840 ⁴⁾	4833	4848	4834	4840 ⁴⁾	5647 ⁴⁾	4836		4841		-	4846	4845	4845	4846
boring Ø x L in mm	30x96.5	30x80	17.5x84	17.5x61	26.5x84	30x80	30x96.5	42x80		62x100		101 x104	94x95	98x100	98x100	94x95
tubes per rotor	28	20	76	88	28	20	28	12	4							
max. RCF ²⁾	4,708	4,637	4,637	4,684	4,637		4,708	4,495	4,779							
radius in mm	199	196	196	198	196		199	190	202							
run-up in sec	90															
run-down in sec, braked	95															
temperature in °C ¹⁾	+4															

capacity in ml	1.5	2.0	5	7	8	9	10	15	25	50	100	2.6–3.4	2.7–3	4–5.5	4.5–5
Ø x L in mm	11 x 38		12 x 75	12 x 100	16 x 81	14 x 100	17 x 70	17 x 100	24 x 100	34 x 100	44 x 100	13 x 65	11 x 66	15 x 75	11 x 92
Cat. No.	2078	0536	0553 ²⁾	0578 ²⁾	-	0500 ²⁾	2079	0518 ²⁾	0519 ²⁾	0521 ²⁾	0526 ²⁾	blood/urine tubes			
lid with bio-containment⁵⁾ Cat. No. 5621  carrier Cat. No. 5623															
															
Cat. No.	4432		4433		4434				4438	4439	4442	4435	4433	4434	4433
boring Ø x L in mm	11.5 x 38		13 x 58		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
tubes per rotor	168		120		76				28	16	8	84	120	76	120
max. RCF ²⁾ upper/lower	3,407 / 4,542		4,471		4,637				4,353	4,424	4,400	4,471		4,637	4,471
radius in mm oben/unten	144 / 192		189		196				184	187	186	189		196	189
run-up in sec	90														
run-down in sec, braked	95														
temperature in °C ¹⁾	+4														

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

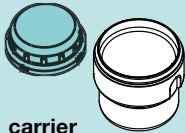
²⁾ Please note that the RCF values indicated refer only to rotor performance. The max. permissible RCF of tubes used should be verified with the individual manufacturers. The max. RCF for glass tubes annotated with footnote ²⁾ is 4,000.

³⁾ When using these tubes, carriers 5620 and 5623 cannot be closed with lid 5621.

ROTORS AND ACCESSORIES

Swing-out rotor 5624

capacity in ml	4.9	7.5–8.5	9–10	10	1.6–5	4–7	4–7	8	8.5–10	10	15	50	25	30	250	290
Ø x L in mm	13x90	15x92	16x92	15x102	13x75	13x100	16x75	16x125	16x100	16x80	17x120	29x115	25x90	25x110	61x122	62x137
Cat. No.	blood collection/urine tubes										-	0509	0513	-	-	5127 ⁷⁾
lid with bio-containment ⁵⁾ Cat. No. 5621																
carrier Cat. No. 5623																
Cat. No.	4435	4434	4435	4434	4437	4441	4438	4443								
boring Ø x L in mm	13.5x58	17.5x53	13.5x58	17.5x53	17x88	30x87	26x72	62x92								
tubes per rotor	84	76	84	76	48	20	28	4								
max. RCF ²⁾	4,471	4,637	4,471	4,637	4,755	4,566	4,873									
radius in mm	189	196	189	196	201	193	206									
run-up in sec	90															
run-down in sec, braked	95															
temperature in °C ¹⁾	+4															

capacity in ml	600	750	175	175	200	225	250	500	450	750	450	
Ø x L in mm	93 x 134	97 x 152	61 x 118	62 x 144	60 x 130	61 x 137	60 x 162	96 x 147	97 x 113	93 x 137	triplicate system without filter	
Cat. No.	0551 ⁷⁾	0512 ⁷⁾	Falcon®	Nalgene®	Nunc®	Falcon®	Corning	Corning	4447	4234	blood bag	
lid with bio-containment ⁵⁾ Cat. No. 5621												
carrier Cat. No. 5623												
Cat. No.	4466	4451	4440	4430		4440	4430	4449	4451	4466	-	
boring Ø x L in mm	94 x 90	98 x 116	-							98 x 116	94 x 90	
tubes per rotor	4											
max. RCF ²⁾	4,873		5,063						4,873		5,063	
radius in mm	206		214						206		214	
run-up in sec	90											
run-down in sec, braked	95											
temperature in °C ¹⁾	+4											

⁴⁾ Please remove the inserts.

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

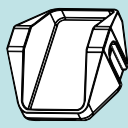
⁶⁾ The screw cap for tube No. 0538 is available with Cat. No. 0539. Dimensions with cap 38 x 106 mm.

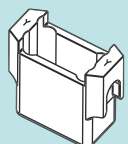
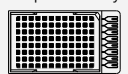
⁷⁾ At temperatures of over + 40 °C and / or when not filled to capacity, bottles may warp during centrifugation.

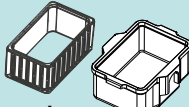
ROTORS AND ACCESSORIES

Swing-out rotor 5624

capacity in ml	450	
blood bags	triplicate system	quadruplicate system
Cat. No.	5693	5695
 carrier Cat. No. 5691	holder for systems without filter	holder for systems with or without filter
		
Cat. No.	5692	
boring Ø x L in mm	-	
blood bag systems per rotor	4	
max. RCF ²⁾	4,637	
radius in mm	196	
run-up in sec	90	
run-down in sec, braked	95	
temperature in °C ¹⁾	+ 11	

capacity in ml	200
L x B x H in mm	146 x 79 x 36,5
Cat. No.	-
 carrier Cat. No. 5630	
Cat. No.	-
boring Ø x L in mm	-
flasks per rotor	4
max. RCF ²⁾	3,738
radius in mm	158
run-up in sec	90
run-down in sec, braked	95
temperature in °C ¹⁾	+ 4

capacity in ml	-
L x B x H in mm	152.5 x 85.5 x 12
Cat. No.	-
 carrier Cat. No. 5636	TaqMan array
	
Cat. No.	5648
boring Ø x L in mm	-
arrays per rotor	12
max. RCF ²⁾	4,921
radius in mm	208
run-up in sec	90
run-down in sec, braked	95
temperature in °C ¹⁾	+ 4

capacity in ml	1.5	2.0	3	5	6	7	9	25	50	100	100	250	
Ø x L in mm	11 x 38		10 x 60	12 x 75	12 x 82	12 x 100	14 x 100	24 x 100	34 x 100	44 x 100	40 x 115	65 x 115	
Cat. No.	2078	0536	-	0553 ²⁾	0501 ²⁾	0578 ²⁾	0500 ²⁾	0519 ²⁾	0521 ²⁾	0526 ²⁾	0523 ²⁾	0530 ²⁾	
(adaptable only without lid 5629) adapting frame Cat. No. 5220-A  carrier Cat. No. 5628⁸⁾													
	+ 5220-A 		+ 5220-A 		+ 5220-A 		+ 5220-A 		+ 5220-A 		+ 5220-A 		+ 5220-A 
	Cat. No. ⁹⁾	5281		5267		5268		5264		5242	5243	5262	5249
boring Ø x L in mm	11.5 x 50		11 x 44		13.5 x 52		16 x 50		26 x 86	36 x 86	45.5 x 86	42 x 86	66 x 87
tubes per rotor	128		160		96		96		40	16		8	4
max. RCF ²⁾	4,164		4,069		4,164		4,116		4,093		4,069		4,045
radius in mm	176		172		176		174		173		172		171
run-up in sec	90												
run-down in sec, braked	95												
temperature in °C ¹⁾	+ 4												

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

²⁾ Please note that the RCF values indicated refer only to rotor performance. The max. permissible RCF of tubes used should be verified with the individual manufacturers. The max. RCF for glass tubes annotated with footnote ²⁾ is 4,000, for TaqMan arrays it is 335.

⁴⁾ Please remove the inserts.

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

ROTORS AND ACCESSORIES



illustrated with carriers 5628
and lids 5629
with bio-containment⁵⁾
and removal frame 4626

Swing-out rotor Cat. No. (without carriers) 5624

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	1.6–5	4–7	4–7	8.5–10
Ø x L in mm	8x66	13x65	11x66	15x75	11x92	13x90	15x92	16x92	13x75	16x75	13x100	16x100
Cat. No.	blood collection/urine tubes											
(adaptable only without lid 5629) adapting frame Cat. No. 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
 carrier Cat. No. 5628 ⁸⁾												
Cat. No. ⁹⁾	5267	5268	5227	5264	5227	5268	5264	5258	5268	5264	5268	5258
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	13.5 x 52	16 x 50	13.5 x 52	17.6 x 86
tubes per rotor	160	96	160	96	160	96	96	88	96		88	
max. RCF ²⁾	4,069	4,164	4,116		4,164		4,116	4,093	4,164	4,116	4,164	4,093
radius in mm	172	176	174		176		174	173	176	174	176	173
run-up in sec	90											
run-down in sec, braked	95											
temperature in °C ¹⁾	+ 4											

capacity in ml	15	50	50	250	two-tier frame for cyto accessories
Ø x L in mm	17 x 120	29 x 115	29 x 115	61 x 122	
Cat. No.	0509	-	0513	5127 ⁷⁾	cyto chambers ¹⁰⁾
(adaptable only without lid 5629) adapting frame Cat. No. 5220-A					
carrier Cat. No. 5628 ⁸⁾				+ 5220-A + 6319	+ 5220-A
Cat. No. ⁹⁾	6337-A	6339-A	6338-A	5263-A ⁴⁾	5280
boring Ø x L in mm	17x90	30x87	30x90	66x87	-
tubes per rotor	56	24	24	4	16
max. RCF ²⁾ upper/lower	4,258	4,187	4,258	4,187	2,744 / 4,069
radius in mm oben/unten	180	177	180	177	116 / 172
run-up in sec	90				
run-down in sec, braked	95				
temperature in °C ¹⁾	+ 4				

D x W x H in mm	86 x 128 x 15	86 x 128 x 17.5	86 x 128 x 22
capacity in ml	-		
Cat. No.	MTP		CP
lid with bio-containment ⁵⁾ Cat. No. 5629			
carrier Cat. No. 5628 ¹¹⁾			
Cat. No.	4626		
boring Ø x L in mm	-		
plates/strips pro rotor	24	20	16
max. RCF ²⁾	4,211		
radius in mm	max. 178		
run-up in sec	90		
run-down in sec, braked	95		
temperature in °C ¹⁾	+ 4		

⁷⁾ At temperatures of over + 40 °C and / or when not filled to capacity, bottles may warp during centrifugation.

⁸⁾ Please make sure not to exceed the max. permissible loading weight of 800g of carrier 5628. The loading weight is the sum of the weight of the respective adapters, of frame 5220-A (where required), the tubes, and their contents.

⁹⁾ With the exception of adapters 5263-A, 6337-A, 6338-A and 6339-A, two of these adapters need to be placed into carrier 5628.

¹⁰⁾ Please ask for our detailed cyto brochure.

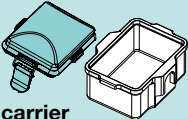
ROTORS AND ACCESSORIES

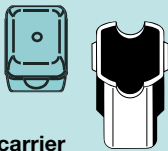
Swing-out rotor, 4-place



Swing-out rotor 5624

Cat. No. (without carriers) **5694**

D x W x H in mm	86x128x44.5	86x128x46	86x128x83	59x84x11	82x124x20	-
capacity in ml						0.2
Cat. No.	DWP	MS	QP	Microtest plate (Terasaki)	PCR plate, 96 wells	PCR strips
lid with bio-containment ⁵⁾ Cat. No. 5629  carrier Cat. No. 5628 ⁸⁾						
						
Cat. No.	4626				4626 + 1485	
boring Ø x L in mm	-					
plates/strips per rotor	4			8	4	48 x 8
max. RCF ²⁾	4,211					
radius in mm	max. 178					
run-up in sec	90					
run-down in sec, braked	95					
temperature in °C ¹⁾	+ 4					

capacity in ml	1.5	2.0	1.5	2.0	5	6	7	9	15	25	50	100	100	1.1–1.4	2.6–3.4	2.7–3	4–5.5		
Ø x L in mm	11x38		11x38		12x75	12x82	12x100	14x100	17x100	24x100	34x100	44x100	40x115	8x66	13x65	11x66	15x75		
Cat. No.	-	-	2078	0536	0553 ²⁾	0501 ²⁾	0578 ²⁾	0500 ²⁾	0518 ²⁾	0519 ²⁾	0521 ²⁾	0526 ²⁾	0523 ²⁾	blood collection tubes					
lid Cat. No. 5053 																			
																			
Cat. No.	5257		5281		5227		5247 ¹⁾		5264	5248 ¹⁾		5242	5243	5262	5249	5267	5268	5227	5264
boring Ø x L in mm	12.5x42		11.5x50		12.5x42		12.5x86		16x50	17.5x86		26x86	36x86	45.5x86	42x86	11x44	13.5x52	12.5x42	16x50
tubes per rotor	160		64		80		80		48	48	20	8	4		80	48	80	48	
max. RCF ²⁾ upper/lower	1,950/2,826		2,826		2,773		2,755		2,773	2,755			2,755		2,737	2,808	2,773		
radius in mm upper/lower	109/158		158		155		154		155	154			154		153	157	155		
run-up in sec	42																		
run-down in sec, braked	51																		
temperature in °C ¹⁾	-3																		

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

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

³⁾ When using these tubes, carrier 5051 cannot be closed with lid 5053.

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

ROTORS AND ACCESSORIES



illustrated with carriers 5051
and lids 5053

Swing-out rotor 5694

capacity in ml	4.5–5	4.9	7.5–8.5	9–10	10	1.6–5	4–7	4–7	8.5–10	15	50	12	30	50	two-tier frame for cyto accessories
Ø x L in mm	11 x 92	13 x 90	15 x 92	16 x 92	15 x 102	13 x 75	16 x 75	13 x 100	16 x 100	17 x 120	29 x 115	17 x 100	25 x 110	29 x 115	
Cat. No.	blood collection/urine tubes										0509	0513	-	-	cyto chambers ¹⁰⁾
lid Cat. No. 5053  carrier Cat. No. 5051 															
															
Cat. No.	5227	5268	5264	5258	5268	5264	5268	5248	6306	5259	6306	5266	5243	5280	
boring Ø x L in mm	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	17.5 x 86	17 x 90	30 x 86	17 x 90	26 x 86	36 x 86	-	
tubes per rotor	80	48	48	44	48					28	8	28	20	8	8
max. RCF ²⁾ upper/lower	2,773	2,808	2,773	2,755	2,808	2,773	2,808	2,755	2,898	2,826	2,898	2,755		1,735/2,737	
radius in mm upper/lower	155	157	155	154	157	155	157	154	162	158	162	154		97/153	
run-up in sec	42														
run-down in sec, braked	51														
temperature in °C ¹⁾	-3														

capacity in ml	5	6	7	10	15	25	50	100	100	250	1.1–1.4	1.1–1.4	2.6–3.4	2.6–3.4
Ø x L in mm	12 x 75	12 x 82	12 x 100	17 x 70	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
Cat. No.	0553²⁾	0501²⁾	0578²⁾	2079	0518²⁾	0519²⁾	0521²⁾	0526²⁾	0523²⁾	0530²⁾	blood collection tubes			
lid with bio-containment ⁵⁾ Cat. No. 5093														
carrier Cat. No. 5092														
Cat. No.	5128	5120	5136	5122	5124	5125	5126	1791	5137	5138	5137	5138	5137	5138
boring Ø x L in mm	12.8 x 45	12.8 x 82	17.5 x 60.7	25.5 x 82	35.5 x 85	45.5 x 85	42 x 85	66 x 103	13.5 x 60.7	12.8 x 54.5	13.5 x 60.7	12.8 x 54.5	13.5 x 60.7	12.8 x 54.5
tubes per rotor	48			32	16	4					32	48	32	48
max. RCF ²⁾	3,005			2,952	2,898	2,952	2,952	3,095	2,952	2,540	2,952	2,540	2,952	2,540
radius in mm	168			165	162	165	165	173	165	142	165	142	165	142
run-up in sec	42													
run-down in sec, braked	51													
temperature in °C ¹⁾	-3													

⁸⁾ Please make sure not to exceed the max. permissible loading weight of 800g of carrier 5628. The loading weight is the sum of the weight of the respective adapters, of frame 5220-A (where required), the tubes, and their contents.

¹⁰⁾ Please ask for our detailed cyto brochure.

¹¹⁾ With Cat. No. 5247-91 or 5248-91 these adapters can also be ordered with a decanting aid.

ROTORS AND ACCESSORIES

Swing-out rotor 5694

capacity in ml	2.7–3	2.7–3	4–5.5	4.5–5	4.9	7.5–8.5	9–10	10	1.6–5	1.6–5	4–7	4–7	8	8.5–10
Ø x L in mm	11 x 66	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 75	13 x 100	16 x 75	16 x 125	16 x 100
Cat. No.	blood collection/urine tubes													
lid with bio-containment ⁵⁾ Cat. No. 5093														
carrier Cat. No. 5092														
Cat. No.	5137	5138	5136	5120	5137	5136			5137	5138	5120	5136	5121 ⁴⁾	5136
boring Ø x L in mm	13.5x60.7	12.8x54.5	17.5x 60.7	12.8x82	13.5x60.7	17.5x60.7			13.5x60.7	12.8x54.5	12.8x82	17.5x60.7	17.5x82	17.5x60.7
tubes per rotor	32	48	32	48	32	32			32	48	48	32	28	32
max. RCF ²⁾	2,952	2,540	2,952	3,005	2,952	2,952			2,952	2,540	3,005	2,952	3,059	2,952
radius in mm	165	142	165	168	165	165			165	142	168	165	171	165
run-up in sec	42													
run-down in sec, braked	51													
temperature in °C ¹⁾	-3													

capacity in ml	15	50	12	25	30	50	10	250	290
Ø x L in mm	17 x 120	29 x 115	17 x 100	25 x 90	25 x 110	29 x 115	16 x 80	61 x 122	62 x 137
Cat. No.	0509	0513	-					5127 ⁷⁾	- ⁷⁾
lid with bio-containment ⁵⁾ Cat. No. 5093									
									
carrier Cat. No. 5092									
Cat. No.	5129	5123	5121	5134	5122	5135	5136	6319	
boring Ø x L in mm	17 x 85	30 x 85	17.5 x 82	26 x 73	25.5 x 82	30 x 99	17.5 x 60.7	66 x 103	
tubes per rotor	28	8	28	12	16	8	32	4	
max. RCF ²⁾	3,095		3,005	2,826	2,898	3,023	2,952	3,095	
radius in mm	173		168	158	162	169	165	173	
run-up in sec	42								
run-down in sec, braked	51								
temperature in °C ¹⁾	-3								

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

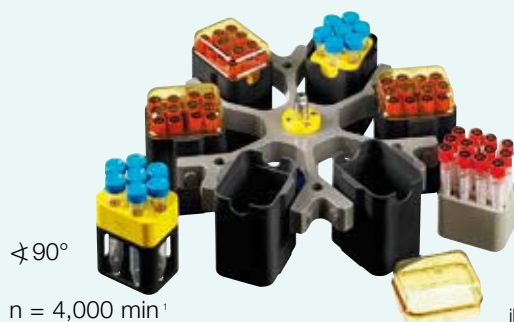
²⁾ Please note that the RCF values indicated refer only to rotor performance. The max. permissible RCF of tubes used should be verified with the individual manufacturers. The max. RCF for glass tubes annotated with footnote ²⁾ is 4,000.

³⁾ When using these tubes, carrier 5051 resp. 5092 cannot be closed with lid 5053 resp. 5093.

⁴⁾ Please remove the inserts.

ROTORS AND ACCESSORIES

Swing-out rotor, 6-place

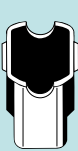


$n = 4,000 \text{ min}^{-1}$
max. RCF 3,631

illustrated with carriers 5051

Cat. No. (without carriers) **4446**

capacity in ml	1.5	2.0	1.5	2.0	3	5	6	7	9	15	25	50	100	100	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	17 x 100	24 x 100	34 x 100	44 x 100	40 x 115	8 x 66	13 x 65	11 x 66
Cat. No.	-	-	2078	0536	-	0553 ²⁾	0501 ²⁾	0578 ²⁾	0500 ²⁾	0518 ²⁾	0519 ²⁾	0521 ²⁾	0526 ²⁾	0523 ²⁾	blood collection tubes		
lid Cat. No. 5053  carrier Cat. No. 5051																	
																	
Cat. No.	5257		5281		5267	5227		5247 ¹¹⁾	5264	5248 ¹¹⁾	5242	5243	5262	5249	5267	5268	5227
boring Ø x L in mm	12.5 x 42		11.5 x 50		11 x 44	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	11 x 44	13.5 x 52	12.5 x 42
tubes per rotor	240		96		120	120		120	72	72	30	12	6	6	120	72	120
max. RCF ²⁾ upper/lower	2,486/3,363		3,363		3,274	3,309		3,291	3,309	3,291		3,291		3,274	3,345	3,309	
radius in mm upper/lower	139/188		188		183	185		184	185	184		184		183	187	185	
run-up in sec	45																
run-down in sec, braked	55																
temperature in °C ¹⁾	0																

capacity in ml	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	12	30	50	two-tier frame for cyto accessories
Ø x L in mm	15x75	11x92	13x90	15x92	16x92	15x102	13x75	16x75	13x100	16x100	17x120	29x115	17x100	25x110	29x115	
Cat. No.	blood collection/urine tubes										0509	0513	-	-	cyto chambers ¹⁰⁾	
lid Cat. No. 5053  carrier Cat. No. 5051 						 ³⁾					 ³⁾	 ³⁾		 ³⁾	 ³⁾	
															 ^{+ 2x 6316}	
Cat. No.	5264	5227	5268	5264	5258	5268	5264	5268	5248	6306	5259	6306	5266	5243	5280	
boring Ø x L in mm	16x50	12.5x42	13.5x52	16x50	17.6x86	13.5x52	16x50	13.5x52	17.5x86	17x90	30x86	17x90	26x86	36x86	-	
tubes per rotor	72	120	72	72	66	72				42	12	42	30	12	12	
max. RCF ²⁾	3,309	3,309	3,345	3,309	3,291	3,345	3,309	3,345	3,291	3,434	3,363	3,434	3,291	3,291	2,290/3,291	
radius in mm	185	185	187	185	184	187	185	187	184	192	188	192	184	184	128/184	
run-up in sec		45														
run-down in sec, braked		55														
temperature in °C ¹⁾		0														

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

⁷⁾ At temperatures of over + 40 °C and / or when not filled to capacity, bottles may warp during centrifugation.

¹⁰⁾ Please ask for our detailed cyto brochure.

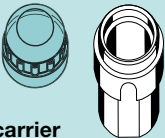
¹¹⁾ With Cat. No. 5247-91 or 5248-91 these adapters can also be ordered with a decanting aid.

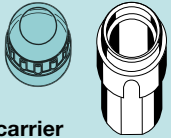
ROTORS AND ACCESSORIES



illustrated with carriers 5092
and lids 5093
with bio-containment⁵⁾

Swing-out rotor Cat. No. (without carriers) 4446

capacity in ml	5	6	7	10	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 70	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
Cat. No.	0553 ²⁾	0501 ²⁾	0578 ²⁾	2079	0518 ²⁾	0519 ²⁾	0521 ²⁾	0526 ²⁾	0523 ²⁾	0530 ²⁾	blood collection tubes					
lid with bio-containment⁵⁾ Cat. No. 5093  carrier Cat. No. 5092																
																
Cat. No.	5128	5120	5136	5122	5124	5125	5126	1791	5137	5138	5137	5138	5137	5138	5137	5138
boring Ø x L in mm	12.8 x 45	12.8 x 82	17.5 x 60.7	25.5 x 82	35.5 x 85	45.5 x 85	42 x 85	66 x 103	13.5 x 60.7	12.8 x 54.5	13.5 x 60.7	12.8 x 54.5	13.5 x 60.7	12.8 x 54.5	13.5 x 60.7	12.8 x 54.5
tubes per rotor	72	72	48	24	6				6	48	72	48	72	48	72	72
max. RCF ²⁾	3,542	3,542	3,488	3,434	3,488				3,631	3,488	3,077	3,488	3,077	3,488	3,077	3,077
radius in mm	198	198	195	192	195				203	195	172	195	172	195	195	172
run-up in sec	45															
run-down in sec, braked	55															
temperature in °C ¹⁾	0															

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	15	50	12
Ø x L in mm	13x90	15x75	11x92	15x92	16x92	15x102	13x75	13x75	13x100	16x75	16x125	16x100	17x120	29x115	17x100
Cat. No.	blood collection/urine tubes												0509	0513	-
lid with bio-containment⁵⁾ Cat. No. 5093  carrier Cat. No. 5092															
															
Cat. No.	5137	5136	5120	5136	5136	5137	5138	5120	5136	5121	5136	5129	5123	5121	
boring Ø x L in mm	13.5x60.7	17.5x60.7	12.8x82	17.5x60.7	17.5x60.7	13.5x60.7	12.8x54.5	12.8x82	17.5x60.7	17.5x82	17.5x60.7	17x85	30x85	17.5x82	
tubes per rotor	48	48	72	48	48	48	72	72	48	42	48	42	12	42	
max. RCF ²⁾	3,488	3,488	3,542	3,488	3,488	3,488	3,077	3,542	3,488	3,542	3,488	3,631		3,542	
radius in mm	195	195	198	195	195	195	172	198	195	198	195	203		198	
run-up in sec	45														
run-down in sec, braked	55														
temperature in °C ¹⁾	0														

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

²⁾ Please note that the RCF values indicated refer only to rotor performance. The max. permissible RCF of tubes used should be verified with the individual manufacturers. The max. RCF for glass tubes annotated with footnote ²⁾ is 4,000, for ASTM tubes it is 700.

³⁾ When using these tubes, carriers 5092 cannot be closed with lid 5093.

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

ROTORS AND ACCESSORIES

Swing-out rotor, 4-place, for ASTM tubes



↗ 90°

n = 2,000 min⁻¹
max. RCF 984

illustrated with carriers 4275

Swing-out rotor, 2-place



↗ 90°

n = 5,900/6,200 min⁻¹
max. RCF 5,838/6,446

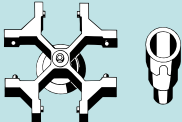
illustrated with carriers 4623
and lids 4627
with bio-containment⁵⁾
and removal frame 4626

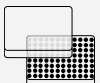
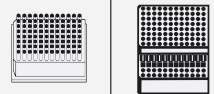
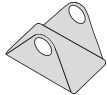
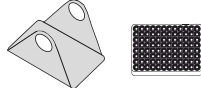
Swing-out rotor 4446

Cat. No. (without carriers) 4474

Cat. No. (without carriers) 4620

capacity in ml	25	30	50	10	250	290
Ø x L in mm	25 x 90	25 x 110	29 x 115	16 x 80	61 x 122	62 x 137
Cat. No.	-			-	5127⁷⁾	-⁷⁾
lid with bio-containment ⁵⁾ Cat. No. 5093						
carrier Cat. No. 5092						
Cat. No.	5134	5122	5135	5136	6319	
boring Ø x L in mm	26 x 73	25.5 x 82	30 x 99	17.5 x 60.7	66 x 103	
tubes per rotor	18	24	12	48	6	
max. RCF ²⁾	3,363	3,434	3,560	3,488	3,631	
radius in mm	188	192	199	195	203	
run-up in sec	45					
run-down in sec, braked	55					
temperature in °C ¹⁾	0					

capacity in ml	50	100	100	100
Ø x L in mm	45 x 130	58 x 161	44 x 168	37 x 200
Cat. No.	- ²⁾	0528 ²⁾	- ²⁾	0531 ²⁾
carrier Cat. No. 4275				
rotor Cat. No. 4474				
Cat. No.	4278-A	0771	4277	4276
boring Ø x L in mm	-			
tubes per rotor	4			
max. RCF ²⁾	984		961	
radius in mm	220		215	
run-up in sec	17			
run-down in sec, braked	20			
temperature in °C ¹⁾	-8			

D x W x H in mm	86 x 128 x 15	86 x 128 x 17.5	86 x 128 x 22	86 x 128 x 44.5	86 x 128 x 46	86 x 128 x 83	59 x 84 x 11	82 x 124 x 20	-
Cat. No.	MTP		CP	DWP	MS	QP	Microtest plate (Terasaki)	PCR plate, 96 wells	PCR strips
lid with bio-containment⁵⁾ Cat. No. 4627  carrier Cat. No. 4623									
									
Cat. No.	4626							4626 + 1485	
boring Ø x L in mm	-								
plates/strips pro rotor	12	10	8	2			4	2	24 x 8
max. RCF ²⁾ classic/ cooled	5,838/6,446								
radius in mm	max. 150								
run-up in sec classic/ cooled	50/55								
run-down in sec, braked classic/ cooled	48/53								
temperature in °C ¹⁾	+ 10								

⁷⁾ At temperatures of over + 40 °C and / or when not filled to capacity, bottles may warp during centrifugation.

ROTORS AND ACCESSORIES

Angle rotor, 6-place



✱ 25°

n = 8,500/9,500 min⁻¹ with bio-containment⁵⁾
max. RCF 11,228/14,025

Cat. No. 5645

Angle rotor, 30-place



✱ 45°

n = 15,000 min⁻¹ with bio-containment⁵⁾
max. RCF 24,400

Cat. No. 4489-A

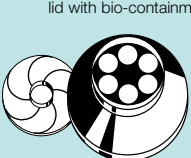
Angle rotor, 6-place

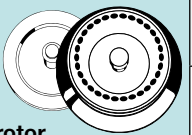


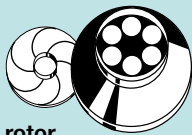
✱ 45°

n = 11,500 min⁻¹ with bio-containment⁵⁾
max. RCF 18,038

Cat. No. 5615

capacity in ml	15	25	85	10	30	50	85	94	250
Ø x L in mm	17 x 100	24 x 100	38 x 101	16 x 80	26 x 95	29 x 107	38 x 106	38 x 102	61 x 122
Cat. No.	0518²⁾	0519²⁾	0549	-	0545	0546	0547	0538⁶⁾	5127⁷⁾
 lid with bio-containment ⁵⁾ incl. rotor Cat. No. 5645									
Cat. No.	5646	5642	5644	5641	5642	5643	5644	-	-
boring Ø x L in mm	17.6 x 83	26 x 80	38.6 x 88	16.6 x 70	26 x 80	29 x 90	38.6 x 88	61.5 x 109	
tubes per rotor	42	18	6	48	18	6	6	6	6
max. RCF ²⁾ classic/cooled	10,662/13,319	10,339/12,915	9,855/12,310	10,743/13,420	10,339/12,915	9,693/12,108	9,855/12,310	11,228/14,025	
radius in mm	132	128	122	133	128	120	122	139	
run-up in sec classic/cooled	98/115								
run-down in sec, braked classic/cooled	105/120								
temperature in °C ¹⁾	+4								

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	
Cat. No.	-				2078	0536
 lid with bio-containment ⁵⁾ incl. rotor Cat. No. 4489-A						
Cat. No.	2024	2023	2031¹²⁾	-		
boring Ø x L in mm	6 x 40	8 x 40	10.2 x 19	11.2 x 40.1		
tubes per rotor	30					
max. RCF ²⁾	24,400					
radius in mm	97					
run-up in sec	73					
run-down in sec, braked	77					
temperature in °C ¹⁾	+7					

capacity in ml	1.5	2.0	15	25	50	75
Ø x L in mm	11 x 38	17 x 100	24 x 100	34 x 100	35 x 105	
Cat. No.	2078	0536	0518²⁾	0519²⁾	0521²⁾	0548
 lid with bio-containment ⁵⁾ incl. rotor Cat. No. 5615						
Cat. No.	1449	1451	1447	1463	1463	
boring Ø x L in mm	11.4 x 39	17.5 x 92	26 x 85	35 x 89	35 x 89	
tubes per rotor	24	6				
max. RCF ²⁾	17,299	17,003	16,560	17,743	17,743	
radius in mm	117	115	112	120	120	
run-up in sec	66					
run-down in sec, braked	68					
temperature in °C ¹⁾	+4					

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

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

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

ROTORS AND ACCESSORIES

Angle rotor, 6-place, for Schlenk tubes

Swing-out rotor, 6-place, for chrome bath tubes



45°

$n = 2,000 \text{ min}^{-1}$
max. RCF 805

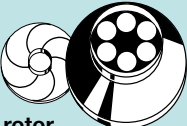
Cat. No. 5616



90°

$n = 2,000 \text{ min}^{-1}$
max. RCF 917

Cat. No. 4619

capacity in ml	85	7.5–8.5	9–10	10	8.5–10	15	50	10	30	50	85	94
Ø x L in mm	38x101	15x92	16x92	15x102	16x100	17x120	29x115	16x80	26x95	29x107	38x106	38x102
Cat. No.	0549	blood/urine tubes				0509	0513	-	0545	0546	0547	0538 ⁶⁾
lid with bio-containment ⁵⁾ incl.  rotor Cat. No. 5615												
												
Cat. No.	-	1451				1466	1454	1448	1447	1446	-	
boring Ø x L in mm	38.2x89.6	17.5x92				17x106	29.8x97	16.5x74	26x85	29x92	38.2x89.6	
tubes per rotor	6	6				6		12	6			
max. RCF ²⁾	18,038	17,003				17,299	17,595	17,003	16,560	17,299	18,038	
radius in mm	122	115				117	119	115	112	117	122	
run-up in sec	66											
run-down in sec, braked	68											
temperature in °C ¹⁾	+ 4											

capacity in ml	25	50
Ø x L in mm	24 x 146.5	38 x 148.5
Cat. No.	0532	0533
rotor Cat. No. 5616		
Cat. No.	4317	-
boring Ø x L in mm	25x86	38.5x89.9
tubes per rotor	6	
max. RCF	783	805
radius in mm	175	180
run-up in sec	17	
run-down in sec, braked	21	
temperature in °C ¹⁾	-14	

capacity in ml	30
Ø x L in mm	24 x 151
Cat. No.	0529¹³⁾
rotor Cat. No. 4619	
Cat. No.	-
boring Ø x L in mm	-
tubes per rotor	6
max. RCF	917
radius in mm	205
run-up in sec	17
run-down in sec, braked	21
temperature in °C ¹⁾	-11

⁶⁾ The screw cap for tube No. 0538 is available with Cat. No. 0539. Dimensions with cap 38 x 106 mm.

⁷⁾ At temperatures of over + 40 °C and / or when not filled to capacity, bottles may warp during centrifugation.

¹²⁾ For centrifugation at high speeds, we recommend to use form-fitting, phenol-resistant adapters 2031.

¹³⁾ The tube may not be centrifuged with the stopper. The stopper only serves to close the tube for agitating or mixing.

ROTANTA 460/460 R

TECHNOLOGY	ROTANTA 460		ROTANTA 460 R ^{1>}		
Benchtop centrifuge, without rotor	classic		cooled		
Power supply	200 – 240 V 1 ~	100 – 127 V 1 ~	200 – 240 V 1 ~	100–127 V 1~	100 V 1
Frequency	50 – 60 Hz		50 Hz	60 Hz	50 Hz
Consumption	1,000 VA	1,100 VA	1,800 VA	2,000 VA	
Emission	EN / IEC 61326-1, class B	FCC class B	EN / IEC 61326-1, class B	FCC class B	
Immunity		-		-	
 Max. capacity	4x750 ml				
 Max. RPM (speed)	15,000 min ⁻¹				
max. RCF	24,400				
Running time	1 sec - 99 h : 59 min : 59 sec, ∞ continuous run, short cycle mode				
Dimensions (HxWxD)	456x554x706 mm		456x770x706 mm		
Weight	approx. 93 kg	approx. 103 kg	approx. 133 kg	approx. 143 kg	
Refrigeration					
Temperature control, infinitely variable	-		from - 20 to + 40 °C		
Cat. No.	5650	5650-01	5660	5660-01	

	ROTANTA 460 RC	ROTANTA 460 RF
	Underbench centrifuge, cooled, without rotor	Floorstanding centrifuge, cooled, without rotor
Power supply	200 – 240 V 1 ~	
Frequency	50 Hz	
Consumption	1,800 VA	
Emission / Immunity	EN / IEC 61326-1, class B	
Dimensions (H x W x D)	683 x 554 x 697 mm	961 x 554 x 697 mm
Weight	approx. 140 kg	approx. 164 kg
Temperature control, infinitely variable	from - 20 to + 40 °C	
	The other values are identical with those of the ROTANTA 460 R	
Cat. No.	5670	5675

- *) Other voltages on request.
 >) Additional model variants on request.



Hettich centrifuges comply with all relevant EU standards in effect and conform to the European level of quality and safety for medical devices. Evidence is provided by national and international test marks such as IEC 61010 or the CE conformity. The ISO 9001:2008, ISO 13485:2003 and 14001:2004 certificates accredited to the company bear witness to the extreme care and responsibility Hettich puts into the manufacturing of centrifuges and their accessories.



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