



**Benchtop  
Centrifuges,  
non-refrigerated  
and refrigerated**

# ROTANTA 460



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.

## 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

## TECHNOLOGY

- Powered lid locking
- Frequency-controlled drive
- N control panel (can store up to 3 programs)
- On option, extended S control panel (can store up to 89 programs and features many additional functions)
- Temperature control in refrigerated models within a range of -20° C to +40°C (with heating/cooling versions up to +60°C)

## SAFETY

- Imbalance switch-off
- Automatic rotor recognition
- Centrifuging chamber of stainless steel
- Metal housing
- Lid locking and holding during rotor run
- Lid dropping protection
- Motor overheating protection
- Chamber overheating protection with ROTANTA 460 R/460 RS centrifuges



ROTANTA 460 R  
benchtop centrifuge,  
cooled,  
dimensions  
(H x W x D):  
453 x 770 x 707 mm

**Cat. No. 5605**

ROTANTA 460  
benchtop centrifuge,  
dimensions (H x W x D):  
453 x 554 x 707 mm

**Cat. No. 5600**

The fully developed up to date Hettich control panels meet the requirements of the users and are extremely easy to operate.

Entry of the parameters is fast, precise, and convenient with selector keys on the water-protected foil keypad.



Keypad (S control panel)




## THE S CONTROL PANEL

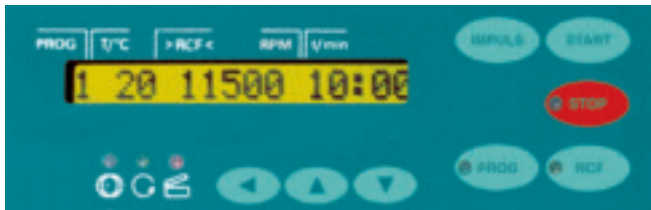
The sophisticated S control panel is standard with the models ROTANTA 460 S, ROTANTA 460 RS and ROTANTA 46 RSC. It enables programming with effortless ease. Whether entering single parameters or chaining complete programs, the clearly arranged display with its selector keys and adjusting knob provides extreme user-friendliness.

## DISPLAY

- PROG-Nr** Program number.  
89 programmable memories are available.
- T/°C** Temperature of the refrigerated ROTANTA 460 RS.
- PROFIL** Run-up and run-down profile.
- n/min<sup>-1</sup>** 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 with the refrigerated ROTANTA 460 RS.
-  Entry of the run-up time in ramps 1-9 or in min : sec.
-  Entry of the run-down time in ramps 1-9 or in min : sec. Unbraked run-down or a brake force cut-off speed can be selected.
- RCF** Switches from RPM to RCF display. Entry of the RCF in increments of 1. Entry of the rotor radius in mm in RCF mode.
- JRCF** 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).
- START** Starts centrifugation.
- STOP** Stops centrifugation manually.



Keypad (N control panel)








## THE N CONTROL PANEL

With ROTANTA 460, 460 R and 46 RC the N control panel is standard.

## DISPLAY


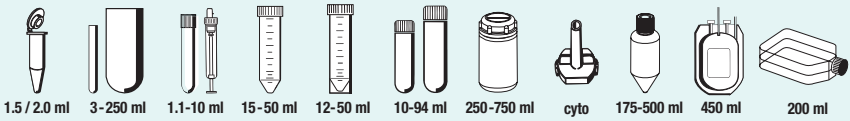
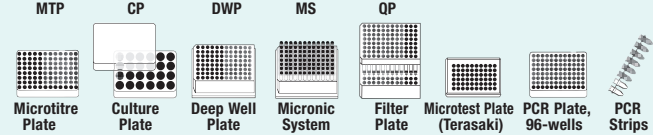

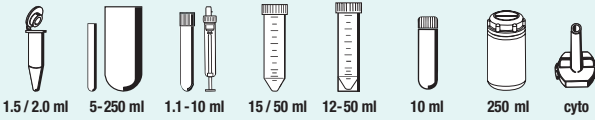

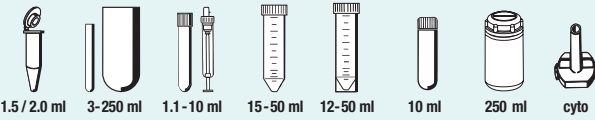

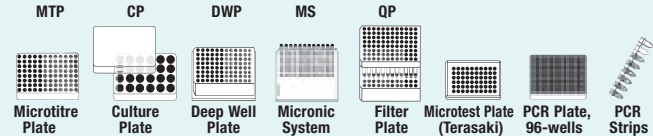



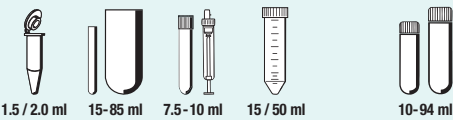

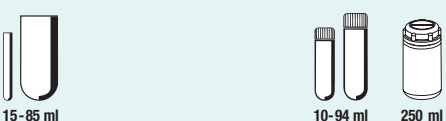



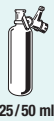


- PROG** Program number. Three programmable memories are available.
- T/°C** Temperature of the refrigerated ROTANTA 460 R. The temperature is infinitely variable between -20 °C and +40 °C.
- >RCF<** Relative centrifugal force.
- RPM** Speed indication. Entry in increments of 10.
- t/min** Centrifugation time (max. 99 min : 59 sec).

## KEYPAD

-  Guides the user through the menu options.
-  Increases the relevant value.
-  Decreases the relevant value.
- IMPULS** For short centrifugation steps.
- START** Starts centrifugation.
- STOP** Stops centrifugation manually.
- PROG** Stores the program.
- RCF** Switches from RPM to RCF display. Entry of the RCF in increments of 10. Input of rotor radius in mm in RCF mode.
-  Entry of the run-up time in ramps 1-9, Entry of the run-down time in ramps 1-9
- An LED lights up:
  -  · in the event of imbalance,
  -  · as long as the rotor is rotating,
  -  · when the lid can be opened on completion of the program.

# Rotors

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

<p>some accessories with bio-containment</p>  <p><b>Swing-out rotor, 4-place</b>  <math>\sphericalangle 90^\circ</math>  <math>n = 4,600 \text{ min}^{-1}</math>  max. RCF 5,063  <b>Cat. No. 5624</b></p>	  <p style="text-align: right;">→ Page 5-11</p>
<p>some accessories with bio-containment</p>  <p><b>Swing-out rotor, 4-place</b>  <math>\sphericalangle 90^\circ</math>  <math>n = 4,000 \text{ min}^{-1}</math>  max. RCF 3,095  <b>Cat. No. 5694</b></p>	 <p style="text-align: right;">→ Page 12-13</p>
<p>some accessories with bio-containment</p>  <p><b>Swing-out rotor, 6-place</b>  <math>\sphericalangle 90^\circ</math>  <math>n = 4,000 \text{ min}^{-1}</math>  max. RCF 3,631  <b>Cat. No. 4446</b></p>	 <p style="text-align: right;">→ Page 14-15</p>
<p>some accessories with bio-containment</p>  <p><b>Swing-out rotor, 2-place</b>  <math>\sphericalangle 90^\circ</math>  <math>n = 5,900/6,200 \text{ min}^{-1}</math>  max. RCF 5,858/6,446  <b>Cat. No. 4620</b></p>	 <p style="text-align: right;">→ Page 16</p>
<p>some accessories with bio-containment</p>  <p><b>Angle rotor, 30-place</b>  <math>\sphericalangle 45^\circ</math>  <math>n = 15,000 \text{ min}^{-1}</math>  max. RCF 24,400  <b>Cat. No. 4489</b></p>	 <p style="text-align: right;">→ Page 16</p>
<p>some accessories with bio-containment</p>  <p><b>Angle rotor, 6-place</b>  <math>\sphericalangle 45^\circ</math>  <math>n = 11,500 \text{ min}^{-1}</math>  max. RCF 18,038  <b>Cat. No. 5615</b></p>	 <p style="text-align: right;">→ Page 17</p>
<p>some accessories with bio-containment</p>  <p><b>Angle rotor, 6-place</b>  <math>\sphericalangle 25^\circ</math>  <math>n = 8,500/9,500 \text{ min}^{-1}</math>  max. RCF 11,228/14,025  <b>Cat. No. 5645</b></p>	 <p style="text-align: right;">→ Page 18</p>
 <p><b>Swing-out rotor, 4-place, for ASTM tubes</b>  <math>\sphericalangle 90^\circ</math>  <math>n = 2,000 \text{ min}^{-1}</math>  max. RCF 984  <b>Cat. No. 4474</b></p>	 <p style="text-align: right;">→ Page 18</p>
 <p><b>Angle rotor, 6-place, for Schlenk tubes</b>  <math>\sphericalangle 45^\circ</math>  <math>n = 2,000 \text{ min}^{-1}</math>  max. RCF 805  <b>Cat. No. 5616</b></p>	 <p style="text-align: right;">→ Page 19</p>
 <p><b>Swing-out rotor, 6-place, for chrome bath tubes</b>  <math>\sphericalangle 90^\circ</math>  <math>n = 2,000 \text{ min}^{-1}</math>  max. RCF 917  <b>Cat. No. 4619</b></p>	 <p style="text-align: right;">→ Page 19</p>

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



## Swing-out rotor, 4-place

±90°

n = 4,600 min<sup>-1</sup>  
max. RCF 5,063



illustrated with carriers 5620 and lids 5621  
with bio-containment<sup>5)</sup>

**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 106
<b>Cat. No.</b>	<b>2078</b>	<b>0536</b>	-			<b>0553<sup>2)</sup></b>	<b>0501<sup>2)</sup></b>	<b>0578<sup>2)</sup></b>	<b>2079</b>	<b>0518<sup>2)</sup></b>	<b>0519<sup>2)</sup></b>	<b>0521<sup>2)</sup></b>	<b>0548</b>	<b>0549</b>
lid with bio-containment <sup>5)</sup> Cat. No. 5627														
carrier Cat. No. 5625														
<b>Cat. No.</b>	<b>4730</b>			<b>4732</b>				<b>4733</b>	<b>4734</b>	<b>4735</b>	<b>4736</b>			
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 <sup>2)</sup> 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	☐ 95    ◯ 960													
temperature in °C <sup>1)</sup>	+4													

capacity in ml	100	100	250	1.1-1.4	2.6-2.9	2.7-3	4-5.5	4.5-5	4.9	7.5-8.2	9-10	10
Ø x L in mm	44 x 100	40 x 115	65 x 115	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
<b>Cat. No.</b>	<b>0526<sup>2)</sup></b>	<b>0523<sup>2)</sup></b>	<b>0530<sup>2)</sup></b>	<b>blood collection/urine tubes</b>								
lid with bio-containment <sup>5)</sup> Cat. No. 5627												
carrier Cat. No. 5625												
<b>Cat. No.</b>	<b>4737</b>	<b>4736</b>	<b>4738</b>	<b>4730</b>	<b>4732</b>	<b>4733</b>	<b>4732</b>	<b>4733</b>				
boring Ø x L in mm	46 x 84	42 x 80	66 x 80	11 x 84	13.5 x 84	17.5 x 84	13.5 x 84	17.5 x 84				
tubes per rotor	8	12	4	120	80	68	80	68				
max. RCF <sup>2)</sup>	4,637	4,495		4,637								
radius in mm	196	190		196								
run-up in sec	90											
run-down in sec	☐ 95    ◯ 960											
temperature in °C <sup>1)</sup>	+4											

<sup>1)</sup> Lowest attainable temperature in precooled refrigerated centrifuges at max. speed.

<sup>2)</sup> 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 <sup>2)</sup> is 4,000.

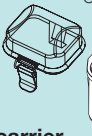
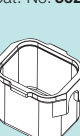
































<sup>5)</sup> Tested by the TÜV in conformity with DIN EN 61010, section 2-020.



































# 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
<b>Cat. No.</b>	blood collection/urine tubes				-	0509	0513	-				-	0545	0546	0547	0538 <sup>3)</sup>
lid with bio-containment <sup>3)</sup> Cat. No. 5627  carrier Cat. No. 5625 																
																
<b>Cat. No.</b>	4732		4733		4739 <sup>4)</sup>	4739	4740	4739 <sup>4)</sup>	4734		4740 <sup>4)</sup>	4733	4734	4740 <sup>4)</sup>	4736	
boring Ø x L in mm	13.5x84		17.5x84		17x80		30x80	17x80	26.5x84		30x80	17.5x84	26.5x84	30x80	42x80	
tubes per rotor	80		68		48		20	48	24		20	68	24	20	12	
max. RCF <sup>2)</sup>	4,637														4,495	
radius in mm	196														190	
run-up in sec	90															
run-down in sec	☐ 95    ☐ 960															
temperature in °C <sup>1)</sup>	+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	38x106	40x115
<b>Cat. No.</b>	2078	0536	-			0553 <sup>2)</sup>	0501 <sup>2)</sup>	0578 <sup>2)</sup>	2079	0518 <sup>2)</sup>	0519 <sup>2)</sup>	-	0521 <sup>2)</sup>	0548	0549	0523 <sup>2)</sup>
lid with bio-containment <sup>3)</sup> Cat. No. 5621  carrier Cat. No. 5620 																
																
<b>Cat. No.</b>	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			
max. RCF <sup>2)</sup> 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	☐ 95    ☐ 960															
temperature in °C <sup>1)</sup>	+4															

<sup>1)</sup> Lowest attainable temperature in precooled refrigerated centrifuges at max. speed.

<sup>2)</sup> 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 <sup>2)</sup> is 4,000.

<sup>3)</sup> When using these tubes, carrier 5620 cannot be closed with lid 5621.

<sup>4)</sup> Please remove the inserts.



adapter 4833 with  
blood collection tubes

## Swing-out rotor 5624

capacity in ml	100	250	1.1-1.4	2.6-2.9	2.6-2.9	2.7-3	4-5.5	4.5-5	4.9	4.9	7.5-8.2	9-10	9-10	10	1.6-5	1.6-5
Ø x L in mm	44x100	65x115	8x66	13x65	13x65	11x66	15x75	11x92	13x90	13x90	15x92	16x92	16x92	15x102	13x75	13x75
<b>Cat. No.</b>	<b>0526<sup>2)</sup></b>	<b>0530<sup>2)</sup></b>	<b>blood collection/urine tubes</b>													
lid with bio-containment <sup>5)</sup> Cat. No. 5621																
carrier Cat. No. 5620																
<b>Cat. No.</b>	<b>4837</b>	<b>4838</b>	<b>4830</b>	<b>4847</b>	<b>4832</b>	<b>4833</b>	<b>4832</b>	<b>4847<sup>4)</sup></b>	<b>4833</b>	<b>4848</b>	<b>4833</b>	<b>4847</b>	<b>4832</b>			
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	13.5x84			
tubes per rotor	8	4	96	108	76				108	76	88	76	108	76		
max. RCF <sup>2)</sup>	4,637	4,495	4,637	4,116	4,637				4,684	4,637	4,684	4,637	4,116	4,637		
radius in mm	196	190	196	174	196				198	196	198	196	174	196		
run-up in sec	90															
run-down in sec	☐ 95    ☐ 1960															
temperature in °C <sup>1)</sup>	+ 4															

capacity in ml	4-7	4-7	4-7	4-7	8	8.5-10	8.5-10	14	15	50	50	12	25	30	50	50
Ø x L in mm	13x100	13x100	16x75	16x75	16x125	16x100	16x100	16.5x106	17x120	29x115	29x115	17x100	25x90	25x110	29x115	29x115
<b>Cat. No.</b>	<b>blood collection/urine tubes</b>								-	<b>0509</b>	<b>0513</b>	<b>0513</b>	-			
lid with bio-containment <sup>5)</sup> Cat. No. 5621																
carrier Cat. No. 5620																
<b>Cat. No.</b>	<b>4847<sup>4)</sup></b>	<b>4833</b>	<b>4848</b>	<b>4833</b>	<b>4848</b>	<b>4839<sup>4)</sup></b>	<b>4839</b>	<b>5647</b>	<b>4840</b>	<b>4839<sup>4)</sup></b>	<b>4834</b>	<b>5647<sup>4)</sup></b>	<b>4840<sup>4)</sup></b>			
boring Ø x L in mm	13.2x61	17.5x84	17.5x61	17.5x84	17.5x61	17x80	30x96.5	30x80	17x80	26.5x84	30x96.5	30x80				
tubes per rotor	108	76	88	76	88	56	28	20	56	28	28	28	20			
max. RCF <sup>2)</sup>	4,684	4,637	4,684	4,637	4,684	4,637	4,708	4,637				4,708	4,637			
radius in mm	198	196	198	196	198	196	199	196				199	196			
run-up in sec	90															
run-down in sec	☐ 95    ☐ 1960															
temperature in °C <sup>1)</sup>	+ 4															

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

<sup>8)</sup> The screw cap for tube No. 0538 is available with Cat. No. 0539. Dimensions with cap 38 x 106 mm.

# Accessories

## Swing-out rotor 5624

capacity in ml	10	10	30	50	50	85	94	250	600	750
Ø x L in mm	16x80	16x80	26x95	29x107	29x107	38x106	38x102	61x122	93x134	97x152
<b>Cat. No.</b>	-	-	<b>0545</b>	<b>0546</b>	<b>0546</b>	<b>0547</b>	<b>0538<sup>3)</sup></b>	<b>5127</b>	<b>0551</b>	<b>0512</b>
lid with bio-containment <sup>5)</sup> Cat. No. <b>5621</b>										
<b>carrier</b> Cat. No. <b>5620</b>										
<b>Cat. No.</b>	<b>4833</b>	<b>4848</b>	<b>4834</b>	<b>4840<sup>4)</sup></b>	<b>5647<sup>4)</sup></b>	<b>4836</b>	<b>4841</b>	<b>4846</b>	<b>4845</b>	
boring Ø x L in mm	17.5x84	17.5x61	26.5x84	30x80	30x96.5	42x80	62x100	94x95	98x100	
tubes per rotor	76	88	28	20	28	12	4			
max. RCF <sup>2)</sup>	4,637	4,684	4,637		4,708	4,495		4,779		
radius in mm	196	198	196		199	190		202		
run-up in sec	90									
run-down in sec	☐ 95    ☐ 960									
temperature in °C <sup>1)</sup>	+ 4									

capacity in ml	1.5	2.0	5	7	8	9	10	15	25	50	100	2.6–2.9	2.7–3	4–5.5
Ø x L in mm	11x38		12x75	12x100	16x81	14x100	17x70	17x100	24x100	34x100	44x100	13x65	11x66	15x75
<b>Cat. No.</b>	<b>2078</b>	<b>0536</b>	<b>0553<sup>2)</sup></b>	<b>0578<sup>2)</sup></b>	-	<b>0500<sup>2)</sup></b>	<b>2079</b>	<b>0518<sup>2)</sup></b>	<b>0519<sup>2)</sup></b>	<b>0521<sup>2)</sup></b>	<b>0526<sup>2)</sup></b>	<b>blood/urine tubes</b>		
lid with bio-containment <sup>5)</sup> Cat. No. <b>5621</b>														
<b>carrier</b> Cat. No. <b>5623</b>														
<b>Cat. No.</b>	<b>4432</b>		<b>4433</b>		<b>4434</b>			<b>4438</b>	<b>4439</b>	<b>4442</b>	<b>4435</b>	<b>4433</b>	<b>4434</b>	
boring Ø x L in mm	11.5x38		13x58		17.5x53			26x72	36x79	45x78	13.5x58	13x58	17.5x53	
tubes per rotor	168		120		76			28	16	8	84	120	76	
max. RCF <sup>2)</sup> upper/lower	3,407 / 4,542		4,471		4,637			4,353	4,424	4,400	4,471		4,637	
radius in mm upper/lower	144 / 192		189		196			184	187	186	189		196	
run-up in sec	90													
run-down in sec	☐ 95    ☐ 960													
temperature in °C <sup>1)</sup>	+ 4													

1) Lowest attainable temperature in precooled refrigerated centrifuges at max. speed.

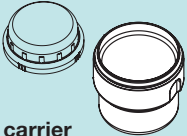













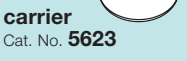







2) Please note that the RCF values indicated refer only to rotor performance. The max. permissible RCF of tubes used should be verified with the individual manufacturers. The max. RCF for glass tubes annotated with footnote <sup>2)</sup> is 4,000.














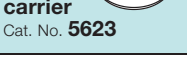










3) When using these tubes, carrier 5620 or 5623 cannot be closed with lid 5621.

4) Please remove the inserts.



### Swing-out rotor 5624

capacity in ml	4.5–5	4.9	7.5–8.2	9–10	10	1.6–5	4–7	4–7	8	8.5–10	10	15	50	
Ø x L in mm	11x92	13x90	15x92	16x92	15x102	13x75	13x100	16x75	16x125	16x100	16x80	17x120	29x115	
<b>Cat. No.</b>	<b>blood collection/urine tubes</b>											-	<b>0509</b>	<b>0513</b>
lid with bio-containment <sup>5)</sup> Cat. No. 5621 														
<b>carrier</b> Cat. No. 5623 														
<b>Cat. No.</b>	<b>4433</b>	<b>4435</b>	<b>4434</b>			<b>4435</b>			<b>4434</b>			<b>4437</b>	<b>4441</b>	
boring Ø x L in mm	13x58	13.5x58	17.5x53			13.5x58			17.5x53			17x88	30x87	
tubes per rotor	120	84	76			84			76			48	20	
max. RCF <sup>2)</sup>	4,471		4,637			4,471			4,637			4,755		
radius in mm	189		196			189			196			201		
run-up in sec	90													
run-down in sec	☐ 95    ☐ 960													
temperature in °C <sup>1)</sup>	+ 4													




capacity in ml	25	30	250	600	750	175	175	200	225	250	500	450
Ø x L in mm	25 x 90	25x110	61 x 122	93x134	97x152	61 x 118	62x144	60x130	61 x 137	60x172	96 x 147	triplicate system without filter
<b>Cat. No.</b>	-	-	<b>5127</b>	<b>0551</b>	<b>0512</b>	<b>Falcon®</b>	<b>Nalgene®</b>	<b>Nunc®</b>	<b>Falcon®</b>	<b>Corning</b>	<b>Corning</b>	<b>blood bag</b>
lid with bio-containment <sup>5)</sup> Cat. No. 5621 												
<b>carrier</b> Cat. No. 5623 												
<b>Cat. No.</b>	<b>4438</b>	<b>4443</b>	<b>4466</b>	<b>4451</b>	<b>4440</b>	<b>4430</b>	<b>4440</b>	<b>4430</b>	<b>4440</b>	<b>4430</b>	<b>4449</b>	-
boring Ø x L in mm	26 x 72		62x92	94x90	98 x 116	-						
tubes per rotor	28		4	4		4						
max. RCF <sup>2)</sup>	4,566		4,873	4,873		5,063						
radius in mm	193		206	206		214						
run-up in sec	90											
run-down in sec	☐ 95    ☐ 960											
temperature in °C <sup>1)</sup>	+ 4											

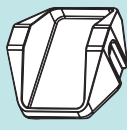
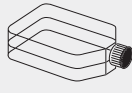
<sup>5)</sup> Tested by the TÜV in conformity with DIN EN 61010, section 2-020.

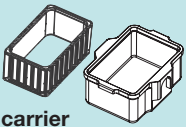
















<sup>8)</sup> The screw cap for tube No. 0538 is available with Cat. No. 0539. Dimensions with cap 38 x 106 mm.

# Accessories

## Swing-out rotor 5624

capacity in ml	450	
<b>blood bags</b>	triplicate system	quadruplicate system
<b>Cat. No.</b>	<b>5693</b>	<b>5695</b>
 <b>carrier</b> Cat. No. <b>5691</b>	holder for systems without filter	holder for systems with or without filter
		
<b>Cat. No.</b>	<b>5692</b>	
boring Ø x L in mm	-	
blood bag systems per rotor	4	
max. RCF <sup>2)</sup>	4,637	
radius in mm	196	
run-up in sec	90	
run-down in sec	☐ 95    ☐ 960	
temperature in °C <sup>1)</sup>	+11	

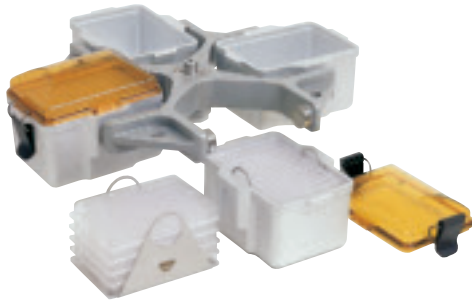
capacity in ml	200
L x W x H in mm	146 x 79 x 36.5
<b>Cat. No.</b>	-
 <b>carrier</b> Cat. No. <b>5630</b>	
<b>Cat. No.</b>	-
boring Ø x L in mm	-
flasks per rotor	4
max. RCF <sup>2)</sup>	3,783
radius in mm	158
run-up in sec	90
run-down in sec	☐ 95    ☐ 960
temperature in °C <sup>1)</sup>	+4

capacity in ml	1.5	2.0	3	5	6	7	25	50	100	100	250	1.1-1.4	2.6-2.9	2.7-3	4-5.5	4.5-5
Ø x L in mm	11x38		10x60	12x75	12x82	12x100	24x100	34x100	44x100	40x115	65x115	8x66	13x65	11x66	15x75	11x92
<b>Cat. No.</b>	<b>2078</b>	<b>0536</b>	-	<b>0553<sup>2)</sup></b>	<b>0501<sup>2)</sup></b>	<b>0578<sup>2)</sup></b>	<b>0519<sup>2)</sup></b>	<b>0521<sup>2)</sup></b>	<b>0526<sup>2)</sup></b>	<b>0523<sup>2)</sup></b>	<b>0530<sup>2)</sup></b>	<b>blood/urine tubes</b>				
 <b>carrier</b> Cat. No. <b>5628<sup>3)</sup></b>																
	+ 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
<b>Cat. No.<sup>10)</sup></b>	<b>5281</b>	<b>5267</b>		<b>5268</b>	<b>5242</b>	<b>5243</b>	<b>5262</b>	<b>5249</b>	<b>5263-A</b>	<b>5267</b>	<b>5268</b>	<b>5227</b>	<b>5264</b>	<b>5227</b>		
boring Ø x L in mm	11.5x50	11x44		13.5x52	26x86	36x86	45.5x86	42x86	66x87	11x44	13.5x52	12.5x42	16x50	12.5x42		
tubes per rotor	128	160		96	40	16	8	4	160	96	160	96	160			
max. RCF <sup>2)</sup>	4,164	4,069		4,164	4,093	4,069	4,045	4,069	4,164	4,116	4,116	4,116	4,116			
radius in mm	176	172		176	173	172	171	172	176	174	174					
run-up in sec	90															
run-down in sec	☐ 95    ☐ 960															
temperature in °C <sup>1)</sup>	+4															

<sup>1)</sup> Lowest attainable temperature in precooled refrigerated centrifuges at max. speed.















<sup>2)</sup> 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 <sup>2)</sup> is 4,000.

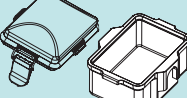









<sup>4)</sup> Please remove the inserts.



illustrated with carriers 5628  
and lids 5629  
with bio-containment<sup>5)</sup>  
and removal frame 4626

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

capacity in ml	4.9	7.5–8.2	9–10	1.6–5	4–7	4–7	8.5–10	15	30	50	50	250	two-tier frame for cyto accessories
Ø x L in mm	13x90	15x92	16x92	13x75	16x75	13x100	16x100	17x120	25x110	29x115	29x115	61x122	
<b>Cat. No.</b>	<b>blood collection/urine tubes</b>							<b>0509</b>	-	-	<b>0513</b>	<b>5127</b>	<b>cyto chambers<sup>11)</sup></b>
(use of lid 5629 is not possible) adapting frame Cat. No. 5220-A  <b>carrier</b> Cat. No. 5628 <sup>9)</sup>													
<b>Cat. No.<sup>10)</sup></b>	<b>5268</b>	<b>5264</b>	<b>5258</b>	<b>5268</b>	<b>5264</b>	<b>5268</b>	<b>5258</b>	<b>6337-A</b>	<b>5266<sup>4)</sup></b>	<b>6339-A</b>	<b>6338-A</b>	<b>5263-A<sup>4)</sup></b>	<b>5280</b>
boring Ø x L in mm	13.5x52	16x50	17.6x86	13.5x52	16x50	13.5x52	17.6x86	17x90	26x86	30x87	30x90	66x87	-
tubes per rotor	96	96	88	96			88	56	40	24	24	4	16
max. RCF <sup>2)</sup>	4,164	4,116	4,093	4,164	4,116	4,164	4,093	4,258	4,187		4,258	4,187	2,744/4,069
radius in mm	176	174	173	176	174	176	173	180	177		180	177	116/172
run-up in sec	90												
run-down in sec	☐ 95    ○ 960												
temperature in °C <sup>1)</sup>	+ 4												

D x W x H in mm	86x128x15	86x128x17.5	86x128x22	86x128x44.5	86x128x46	86x128x83	59x84x11	82x124x20	-	
capacity in ml	-									0.2
<b>Cat. No.</b>	<b>MTP</b>		<b>CP</b>	<b>DWP</b>	<b>MS</b>	<b>QP</b>	<b>Microtest plate (Terasaki)</b>	<b>PCR plate, 96 wells</b>	<b>PCR strips</b>	
lid with bio-containment <sup>5)</sup> Cat. No. 5629  <b>carrier</b> Cat. No. 5628 <sup>9)</sup>										
<b>Cat. No.</b>	<b>4626</b>							<b>4626 + 1469</b>		
boring Ø x L in mm	-									
plates/strips per rotor	24	20	16	4		8	4	48x8		
max. RCF <sup>2)</sup>	4,211									
radius in mm	max. 178									
run-up in sec	90									
run-down in sec	☐ 95    ○ 960									
temperature in °C <sup>1)</sup>	+ 4									

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

<sup>9)</sup> 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.

<sup>10)</sup> With the exception of adapters 6337-A, 6338-A, 6339-A and 5263-A, two of these adapters need to be placed into carrier 5628.

<sup>11)</sup> Please ask for our detailed cyto brochure.

# Accessories

## Swing-out rotor, 4-place



↻ 90°

n = 4,000 min<sup>-1</sup>  
max. RCF 3,095

illustrated with carriers 5051  
and lids 5053

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

capacity in ml	1.5	2.0	1.5	2.0	5	6	7	15	25	50	100	100	1.1–1.4	2.6–2.9	2.7–3	4–5.5		
Ø x L in mm	11 x 38		11 x 38		12 x 75	12 x 82	12 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	15 x 75		
<b>Cat. No.</b>	-	-	<b>2078</b>	<b>0536</b>	<b>0553<sup>2)</sup></b>	<b>0501<sup>2)</sup></b>	<b>0578<sup>2)</sup></b>	<b>0518<sup>2)</sup></b>	<b>0519<sup>2)</sup></b>	<b>0521<sup>2)</sup></b>	<b>0526<sup>2)</sup></b>	<b>0523<sup>2)</sup></b>	<b>blood collection tubes</b>					
lid Cat. No. <b>5053</b>																		
<b>carrier</b> Cat. No. <b>5051</b>																		
<b>Cat. No.</b>	<b>5257</b>	<b>5281</b>	<b>5227</b>		<b>5247<sup>12)</sup></b>	<b>5248<sup>12)</sup></b>	<b>5242</b>	<b>5243</b>	<b>5262</b>	<b>5249</b>	<b>5267</b>	<b>5268</b>	<b>5227</b>	<b>5264</b>				
boring Ø x L in mm	12.5 x 42	11.5 x 50	12.5 x 42		12.5 x 86	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	16 x 50				
tubes per rotor	160	64	80		80	48	20	8	4		80	48	80	48				
max. RCF <sup>2)</sup> upper/lower	1,950/2,826	2,826	2,773		2,755				2,755		2,737	2,808	2,773					
radius in mm upper/lower	109/158	158	155		154				154		153	157	155					
run-up in sec	42																	
run-down in sec	☐ 51    ☐ 265																	
temperature in °C <sup>1)</sup>	-3																	

capacity in ml	4.5–5	4.9	7.5–8.2	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		
<b>Cat. No.</b>	<b>blood collection/urine tubes</b>										<b>0509</b>	<b>0513</b>	-	-	<b>cyto chambers<sup>11)</sup></b>	
lid Cat. No. <b>5053</b>																
<b>carrier</b> Cat. No. <b>5051</b>																
<b>Cat. No.</b>	<b>5227</b>	<b>5268</b>	<b>5264</b>	<b>5258</b>	<b>5268</b>	<b>5264</b>	<b>5268</b>	<b>5248</b>	<b>6306</b>	<b>5259</b>	<b>6306</b>	<b>5266</b>	<b>5243</b>	<b>5280</b>		
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 <sup>2)</sup> 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	☐ 51    ☐ 265															
temperature in °C <sup>1)</sup>	-3															

<sup>1)</sup> Lowest attainable temperature in precooled refrigerated centrifuges at max. speed.

































<sup>2)</sup> 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 <sup>2)</sup> is 4,000.

































<sup>3)</sup> When using these tubes, carrier 5051 or 5092 cannot be closed with lid 5053 or 5093.

<sup>4)</sup> Please remove the inserts.



## Swing-out rotor 5694

capacity in ml	5	6	7	10	15	25	50	100	100	250	1.1-1.4	2.6-2.9	2.7-3	4-5.5	4.5-5	4.9
Ø x L in mm	12x75	12x82	12x100	17x70	17x100	24x100	34x100	44x100	40x115	65x115	8x66	13x65	11x66	15x75	11x92	13x90
<b>Cat. No.</b>	<b>0553<sup>2)</sup></b>	<b>0501<sup>2)</sup></b>	<b>0578<sup>2)</sup></b>	<b>2079</b>	<b>0518<sup>2)</sup></b>	<b>0519<sup>2)</sup></b>	<b>0521<sup>2)</sup></b>	<b>0526<sup>2)</sup></b>	<b>0523<sup>2)</sup></b>	<b>0530<sup>2)</sup></b>	<b>blood collection tubes</b>					
lid with bio-containment <sup>5)</sup> Cat. No. 5093																
<b>carrier</b> Cat. No. 5092																
<b>Cat. No.</b>	<b>5128</b>	<b>5120</b>	<b>5136</b>	<b>5122</b>	<b>5124</b>	<b>5125</b>	<b>5126</b>	<b>1791</b>	<b>5137</b>	<b>5136</b>	<b>5120</b>	<b>5137</b>				
boring Ø x L in mm	12.8x45	12.8x82	17.5x60.7	25.5x82	35.5x85	45.5x85	42x85	66x103	13.5x60.7	17.5x60.7	12.8x82	13.5x60.7				
tubes per rotor	48		32	16	4				32	32	48	32				
max. RCF <sup>2)</sup>	3,005		2,952	2,898	2,952	2,952		3,095	2,952		3,005	2,952				
radius in mm	168		165	162	165	165		173	165		168	165				
run-up in sec	42															
run-down in sec	☐ 51    ○ 265															
temperature in °C <sup>1)</sup>	-3															

capacity in ml	7.5-8.2	9-10	10	1.6-5	4-7	4-7	8	8.5-10	15	50	12	25	30	50	10	250
Ø x L in mm	15x92	16x92	15x102	13x75	13x100	16x75	16x125	16x100	17x120	29x115	17x100	25x90	25x110	29x115	16x80	61x122
<b>Cat. No.</b>	<b>blood collection/urine tubes</b>									<b>0509</b>	<b>0513</b>	<b>-</b>				<b>5127</b>
lid with bio-containment <sup>5)</sup> Cat. No. 5093																
<b>carrier</b> Cat. No. 5092																
<b>Cat. No.</b>	<b>5136</b>	<b>5137</b>	<b>5120</b>	<b>5136</b>	<b>5121<sup>4)</sup></b>	<b>5136</b>	<b>5129</b>	<b>5123</b>	<b>5121</b>	<b>5134</b>	<b>5122</b>	<b>5135</b>	<b>5136</b>	<b>6319</b>		
boring Ø x L in mm	17.5x60.7		13.5x60.7	12.8x82	17.5x60.7	17.5x82	17.5x60.7	17x85	30x85	17.5x82	26x73	25.5x82	30x99	17.5x60.7	66x103	
tubes per rotor	32		32	48	32	28	32	28	8	28	12	16	8	32	4	
max. RCF <sup>2)</sup>	2,952		2,952	3,005	2,952	3,095	2,952	3,095		3,005	2,826	2,898	3,023	2,952	3,095	
radius in mm	165		165	168	165	171	165	173		168	158	162	169	165	173	
run-up in sec	42															
run-down in sec	☐ 51    ○ 265															
temperature in °C <sup>1)</sup>	-3															

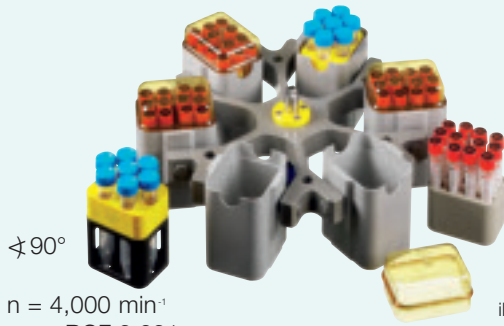
<sup>5)</sup> Tested by the TÜV in conformity with DIN EN 61010, section 2-020.

<sup>1)</sup> Please ask for our detailed cyto brochure.

<sup>12)</sup> With Cat. No. 5247-91 and 5248-91 these adapters can also be ordered with a decanting aid.

# Accessories

## Swing-out rotor, 6-place



↻ 90°

n = 4,000 min<sup>-1</sup>  
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	15	25	50	100	100	1.1–1.4	2.6–2.9	2.7–3	4–5.5
Ø x L in mm	11x38		11x38		10x60	12x75	12x82	12x100	17x100	24x100	34x100	44x100	40x115	8x66	13x65	11x66	15x75
<b>Cat. No.</b>	-	-	<b>2078</b>	<b>0536</b>	-	<b>0553<sup>2)</sup></b>	<b>0501<sup>2)</sup></b>	<b>0578<sup>2)</sup></b>	<b>0518<sup>2)</sup></b>	<b>0519<sup>2)</sup></b>	<b>0521<sup>2)</sup></b>	<b>0526<sup>2)</sup></b>	<b>0523<sup>2)</sup></b>	<b>blood collection tubes</b>			
lid Cat. No. <b>5053</b>																	
<b>carrier</b> Cat. No. <b>5051</b>																	
<b>Cat. No.</b>	<b>5257</b>	<b>5281</b>	<b>5267</b>	<b>5227</b>	<b>5247<sup>12)</sup></b>	<b>5248<sup>12)</sup></b>	<b>5242</b>	<b>5243</b>	<b>5262</b>	<b>5249</b>	<b>5267</b>	<b>5268</b>	<b>5227</b>	<b>5264</b>			
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	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	16 x 50			
tubes per rotor	240	96	120	120	120	72	30	12	6	6	120	72	120	72			
max. RCF <sup>2)</sup> upper/lower	2,486/3,363	3,363	3,274	3,309	3,291			3,291			3,274	3,345	3,309	3,309			
radius in mm upper/lower	139/188	188	183	185	184			184			183	187	185	185			
run-up in sec	45																
run-down in sec	☐ 55    ○ 551																
temperature in °C <sup>1)</sup>	0																

capacity in ml	4.5–5	4.9	7.5–8.2	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	11x92	13x90	15x92	16x92	15x102	13x75	16x75	13x100	16x100	17x120	29x115	17x100	25x110	29x115			
<b>Cat. No.</b>	<b>blood collection/urine tubes</b>										<b>0509</b>	<b>0513</b>	-	-	<b>cyto chambers<sup>11)</sup></b>		
lid Cat. No. <b>5053</b>																	
<b>carrier</b> Cat. No. <b>5051</b>																	
<b>Cat. No.</b>	<b>5227</b>	<b>5268</b>	<b>5264</b>	<b>5258</b>	<b>5268</b>	<b>5264</b>	<b>5268</b>	<b>5248</b>	<b>6306</b>	<b>5259</b>	<b>6306</b>	<b>5266</b>	<b>5243</b>	<b>5280</b>			
boring Ø x L in mm	12.5x42	13.5x52	16x50	17.6x86	13.5x52	16x50	13.5x52	17.5x86	17x90	30x86	17x90	26x86	36x86	-			
tubes per rotor	120	72	72	66	72			42	12	42	30	12	12				
max. RCF <sup>2)</sup>	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	187	185	184	187	185	187	184	192	188	192	184	184	128/184			
run-up in sec	45																
run-down in sec	☐ 55    ○ 551																
temperature in °C <sup>1)</sup>	0																

<sup>1)</sup> Lowest attainable temperature in precooled refrigerated centrifuges at max. speed.

<sup>2)</sup> 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 <sup>2)</sup> is 4,000.

<sup>3)</sup> When using these tubes, carrier 5051 or 5092 cannot be closed with lid 5053 or 5093.



illustrated with carriers 5092  
and lids 5093  
with bio-containment<sup>5)</sup>

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

capacity in ml	5	6	7	15	25	50	100	100	250	1.1-1.4	2.6-2.9	2.7-3	4.9	4-5.5	4.5-5	7.5-8.2
Ø x L in mm	12x75	12x82	12x100	17x100	24x100	34x100	44x100	40x115	65x115	8x66	13x65	11x66	13x90	15x75	11x92	15x92
<b>Cat. No.</b>	<b>0553<sup>2)</sup></b>	<b>0501<sup>2)</sup></b>	<b>0578<sup>2)</sup></b>	<b>0518<sup>2)</sup></b>	<b>0519<sup>2)</sup></b>	<b>0521<sup>2)</sup></b>	<b>0526<sup>2)</sup></b>	<b>0523<sup>2)</sup></b>	<b>0530<sup>2)</sup></b>	<b>blood collection tubes</b>						
lid with bio-containment <sup>5)</sup> Cat. No. 5093																
<b>carrier</b> Cat. No. 5092																
<b>Cat. No.</b>	<b>5137</b>	<b>5120</b>	<b>5136</b>	<b>5122</b>	<b>5124</b>	<b>5125</b>	<b>5126</b>	<b>1791</b>		<b>5137</b>			<b>5136</b>	<b>5120</b>	<b>5136</b>	
boring Ø x L in mm	13.5x60.7	12.8x82	17.5x60.7	25.5x82	35.5x85	45.5x85	42x85	66x103		13.5x60.7			17.5x60.7	12.8x82	17.5x60.7	
tubes per rotor	48	72	48	24	6				6		48		48	72	48	
max. RCF <sup>2)</sup>	3,488	3,542	3,488	3,434	3,488				3,631		3,488		3,488	3,542	3,488	
radius in mm	195	198	195	192	195				203		195		195	198	195	
run-up in sec	45															
run-down in sec	☐ 55    ○ 551															
temperature in °C <sup>1)</sup>	0															

capacity in ml	9-10	10	1.6-5	4-7	4-7	8	8.5-10	15	50	12	25	30	50	10	250	
Ø x L in mm	16x92	15x102	13x75	13x100	16x75	16x125	16x100	17x120	29x115	17x100	25x90	25x110	29x115	16x80	61x122	
<b>Cat. No.</b>	<b>blood collection/urine tubes</b>								<b>0509</b>	<b>0513</b>	-				-	<b>5127</b>
lid with bio-containment <sup>5)</sup> Cat. No. 5093																
<b>carrier</b> Cat. No. 5092																
<b>Cat. No.</b>	<b>5136</b>	<b>5137</b>	<b>5120</b>	<b>5136</b>	<b>5121</b>	<b>5136</b>	<b>5129</b>	<b>5123</b>	<b>5121</b>	<b>5134</b>	<b>5122</b>	<b>5135</b>	<b>5136</b>	<b>6319</b>		
boring Ø x L in mm	17.5x60.7	13.5x60.7	12.8x82	17.5x60.7	17.5x82	17.5x60.7	17x85	30x85	17.5x82	26x73	25.5x82	30x99	17.5x60.7	66x103		
tubes per rotor	48	48	72	48	42	48	42	12	42	18	24	12	48	6		
max. RCF <sup>2)</sup>	3,488	3,488	3,542	3,488	3,542	3,488	3,631		3,542	3,363	3,434	3,560	3,488	3,631		
radius in mm	195	195	198	195	198	195	203		198	188	192	199	195	203		
run-up in sec	45															
run-down in sec	☐ 55    ○ 551															
temperature in °C <sup>1)</sup>	0															

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

<sup>1)</sup> Please ask for our detailed cyto brochure.

<sup>12)</sup> With Cat. No. 5247-91 and 5248-91 these adapters can also be ordered with a decanting aid.

# Accessories

## Swing-out rotor, 2-place



↻ 90°

n = 5,900/6,200 min<sup>-1</sup>  
max. RCF 5,858/6,446

illustrated with carriers 4623  
and lids 4627  
with bio-containment<sup>5)</sup>  
and removal frame 4626

**Cat. No.** (without carriers) **4620**

## Angle rotor, 30-place

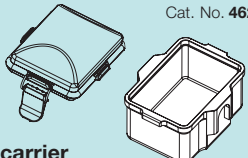







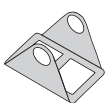


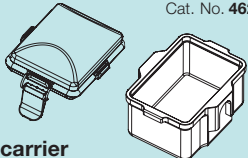


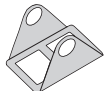

↻ 45°

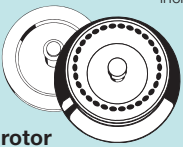








n = 15,000 min<sup>-1</sup>  
max. RCF 24,400

with bio-containment<sup>5)</sup>

**Cat. No.** **4489**

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
Cat. No.	MTP		CP	DWP	MS	QP	Microtest plate (Terasaki)
 lid with bio-containment <sup>5)</sup> Cat. No. 4627  <b>carrier</b> Cat. No. 4623							
<b>Cat. No.</b>	 <b>4626</b>						
boring Ø x L in mm	-						
plates per rotor	12	10	8	2		4	
max. RCF <sup>2)</sup> classic/cooled	5,858/6,446						
radius in mm	max. 150						
run-up in sec classic/cooled	50/55						
run-down in sec classic/cooled	⊖ 48/53 ⊕ 600/600						
temperature in °C <sup>1)</sup>	+12						

D x W x H in mm	82 x 124 x 20	-
Cat. No.	PCR plate, 96 wells	PCR strips
 lid with bio-containment <sup>5)</sup> Cat. No. 4627  <b>carrier</b> Cat. No. 4623		
		
<b>Cat. No.</b>	<b>4626 + 1469</b>	
boring Ø x L in mm	-	
plates/strips per rotor	2	24 x 8
max. RCF <sup>2)</sup> classic/cooled	5,858/6,446	
radius in mm	max. 150	
run-up in sec classic/cooled	50/55	
run-down in sec classic/cooled	⊖ 48/53 ⊕ 600/600	
temperature in °C <sup>1)</sup>	+12	

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 <sup>5)</sup> incl.  <b>rotor</b> Cat. No. 4489						
						
<b>Cat. No.</b>	<b>2024</b>	<b>2023</b>	<b>2031<sup>7)</sup></b>	-		
boring Ø x L in mm	6 x 40	8 x 40	10.2 x 19	11.2 x 40		
tubes per rotor	30					
max. RCF <sup>2)</sup>	24,400					
radius in mm	97					
run-up in sec	73					
run-down in sec	⊖ 77 ⊕ 240					
temperature in °C <sup>1)</sup>	+7					

<sup>1)</sup> Lowest attainable temperature in precooled refrigerated centrifuges at max. speed.

<sup>2)</sup> 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 <sup>2)</sup> is 4,000.



## Angle rotor, 6-place



±45°

n = 11,500 min<sup>-1</sup>  
max. RCF 18,038

with bio-containment<sup>5)</sup>

**Cat. No. 5615**

capacity in ml	1.5	2.0	15	25	50	75	85	7.5–8.2	9–10	10	8.5–10	15	50
Ø x L in mm	11 x 38		17 x 100	24 x 100	34 x 100	35 x 105	38 x 106	15 x 92	16 x 92	15 x 102	16 x 100	17 x 120	29 x 115
<b>Cat. No.</b>	<b>2078</b>	<b>0536</b>	<b>0518<sup>2)</sup></b>	<b>0519<sup>2)</sup></b>	<b>0521<sup>2)</sup></b>	<b>0548</b>	<b>0549</b>	<b>blood/urine tubes</b>				<b>0509</b>	<b>0513</b>
lid with bio-containment <sup>5)</sup> incl.													
<b>rotor</b> Cat. No. <b>5615</b>													
<b>Cat. No.</b>	<b>1449</b>	<b>1451</b>	<b>1447</b>	<b>1463</b>	<b>1463</b>	-		<b>1451</b>				<b>1466</b>	<b>1454</b>
boring Ø x L in mm	11.4 x 39	17.5 x 92	26 x 85	35 x 89	35 x 89	38.2 x 89.6		17.5 x 92				17 x 106	29.8 x 97
tubes per rotor	24	6					6	6				6	
max. RCF <sup>2)</sup>	17,299	17,003	16,560	17,743	17,743	18,038	17,003				17,299	17,595	
radius in mm	117	115	112	120	120	122	115				117	119	
run-up in sec	66												
run-down in sec	☐ 68    ☐ 641												
temperature in °C <sup>1)</sup>	+4												

capacity in ml	10	30	50	85	94
Ø x L in mm	16 x 80	26 x 95	29 x 107	38 x 106	38 x 102
<b>Cat. No.</b>	-	<b>0545</b>	<b>0546</b>	<b>0547</b>	<b>0538<sup>8)</sup></b>
lid with bio-containment <sup>5)</sup> incl.					
<b>rotor</b> Cat. No. <b>5615</b>					
<b>Cat. No.</b>	<b>1448</b>	<b>1447</b>	<b>1446</b>	-	
boring Ø x L in mm	16.5 x 74	26 x 85	29 x 92	38.2 x 89.6	
tubes per rotor	12	6			
max. RCF <sup>2)</sup>	17,003	16,560	17,299	18,038	
radius in mm	115	112	117	122	
run-up in sec	66				
run-down in sec	☐ 68    ☐ 641				
temperature in °C <sup>1)</sup>	+4				

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

<sup>7)</sup> For centrifugation at high speeds, we recommend to use form-fitting, phenol-resistant adapters 2031.

<sup>8)</sup> The screw cap for tube No. 0538 is available with Cat. No. 0539. Dimensions with cap 38 x 106 mm.

# Accessories

## Angle rotor, 6-place



↘ 25°

n = 8,500/9,500 min<sup>-1</sup> with bio-containment<sup>5)</sup>  
max. RCF 11,228/14,025

**Cat. No. 5645**

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



↘ 90°

n = 2,000 min<sup>-1</sup>  
max. RCF 984

illustrated with carriers 4275

**Cat. No. (without carriers) 4474**

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 106	16 x 80	26 x 95	29 x 107	38 x 106	38 x 102	61 x 122
<b>Cat. No.</b>	<b>0518<sup>2)</sup></b>	<b>0519<sup>2)</sup></b>	<b>0549</b>	-	<b>0545</b>	<b>0546</b>	<b>0547</b>	<b>0538<sup>5)</sup></b>	<b>5127</b>
lid with bio-containment <sup>5)</sup> incl.									
<b>rotor</b> Cat. No. <b>5645</b>									
<b>Cat. No.</b>	<b>5646</b>	<b>5642</b>	<b>5644</b>	<b>5641</b>	<b>5642</b>	<b>5643</b>	<b>5644</b>	-	-
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 <sup>2)</sup> classic/ <b>cooled</b>	10,662/ <b>13,319</b>	10,339/ <b>12,915</b>	9,855/ <b>12,310</b>	10,743/ <b>13,420</b>	10,339/ <b>12,915</b>	9,693/ <b>12,108</b>	9,855/ <b>12,310</b>	11,228/ <b>14,025</b>	
radius in mm	132	128	122	133	128	120	122	139	
run-up in sec classic/ <b>cooled</b>	98/115								
run-down in sec classic/ <b>cooled</b>	☐ 105/120    ☐ 1,110/1,103								
temperature in °C <sup>1)</sup>	+4								

capacity in ml	50	100	100	100
Ø x L in mm	45 x 130	58 x 161	44 x 168	37 x 200
<b>Cat. No.</b>	- <sup>2)</sup>	<b>0528<sup>2)</sup></b>	- <sup>2)</sup>	<b>0531<sup>2)</sup></b>
carrier Cat. No. <b>4275</b>				
<b>rotor</b> Cat. No. <b>4474</b>				
<b>Cat. No.</b>	<b>4278</b>	<b>0771</b>	<b>4277</b>	<b>4276</b>
boring Ø x L in mm	-			
tubes per rotor	4			
max. RCF <sup>2)</sup>	984	961		
radius in mm	220	215		
run-up in sec	17			
run-down in sec	☐ 20    ☐ 195			
temperature in °C <sup>1)</sup>	-8			

1) Lowest attainable temperature in precooled refrigerated centrifuges at 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 <sup>2)</sup> is 4,000, for ASTM tubes it is 700.

**Angle rotor, 6-place, for Schlenk tubes**

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

↘ 45°



n = 2,000 min<sup>-1</sup>  
max. RCF 805

**Cat. No. 5616**

↘ 90°



n = 2,000 min<sup>-1</sup>  
max. RCF 917

**Cat. No. 4619**

capacity in ml	25	50
Ø x L in mm	24 x 146.5	38 x 148.5
<b>Cat. No.</b>	<b>0532</b>	<b>0533</b>
 <b>rotor</b> Cat. No. <b>5616</b>		
<b>Cat. No.</b>	<b>4317</b>	-
boring Ø x L in mm	25 x 86	38.5 x 89.9
tubes per rotor	6	
max. RCF	783	805
radius in mm	175	180
run-up in sec	17	
run-down in sec	☐ 21 ☐ 286	
temperature in °C <sup>1)</sup>	-14	

capacity in ml	30
Ø x L in mm	24 x 151
<b>Cat. No.</b>	<b>0529<sup>6)</sup></b>
 <b>rotor</b> Cat. No. <b>4619</b>	
<b>Cat. No.</b>	-
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	☐ 21 ☐ 286
temperature in °C <sup>1)</sup>	-11

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



<sup>6)</sup> The tube may not be centrifuged with the stopper. The stopper only serves to close the tube for agitating or mixing.

<sup>8)</sup> The screw cap for tube No. 0538 is available with Cat. No. 0539. Dimensions with cap 38 x 106 mm.

# ROTANTA 460

## TECHNOLOGY

	ROTANTA 460/460 S		ROTANTA 460 R /460 RS <sup>*)</sup>	
Benchtop centrifuge, without rotor	classic		cooled	
Power supply <sup>*)</sup>	208 – 240 V 1 ~	110 – 127 V 1 ~	208 – 240 V 1 ~	110 – 127 V 1 ~
Frequency	50 – 60 Hz		50 – 60 Hz	60 Hz
Consumption	1,500 VA	1,300 VA	2,400 VA	2,000 VA
Emission	EN 55011 group 1, class B, EN 61000-3-3	FCC class A	EN 55011 group 1, class B, EN 61000-3-3	FCC class A
Immunity	EN 61000-6-1	-	EN 61000-6-1	-

 Max. capacity	4 x 750 ml			
 Max. RPM (speed)	15,000 min <sup>-1</sup>			
Max. RCF	24,400			
Running time	1 sec – 99 resp. 999 („S“) min : 59 sec, ∞ continuous run, short cycle mode (impulse key – N control panel only)			

Dimensions (HxWxD)	453 x 554 x 707 mm		453 x 770 x 707 mm	
Weight	approx. 106 / 89.5 kg	approx. 115 / 98.5 kg	approx. 125 kg	approx. 134 kg

### Refrigeration

Temperature control, infinitely variable	-		from -20 to +40 °C	
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Cat. No.	5600 / 5601	5600-01 / 5601-01	5605 / 5606	5605-01 / 5606-01
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## ROTANTA 46 RC

## ROTANTA 46 RSC

Underbench centrifuge, cooled, without rotor				
Technical details	on request			
Cat. No.	4812	4812-01	4813	4813-01

\*) Other voltages on request.

>) List of further versions of this model 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 9001:2000 and ISO 13485:2003 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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