

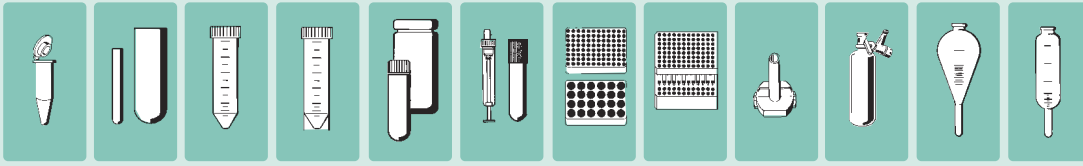
ROTANTA 460

Hettich
ZENTRIFUGEN



**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.

They have responded to the fast-paced changes in laboratory environments with the continuous development of new, technically outstanding solutions.

The ROTANTA 460 models are carrying on this tradition of quality. Enhanced performance and an extended 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 aerosol-tight accessories.

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

ROTANTA 460 - a class of its own

Technology

Automatic lid locking

Frequency-controlled drive

N control panel (can store up to 3 programmes)

On option, extended S control panel (can store up to 89 programmes 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)

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. 4,235 RCF or

12 microtitre plates / 2 filter plates at max. 6,446 RCF

120 blood collection tubes at max. 4,637 RCF

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 460R/RS centrifuges



Hettich manufactures high quality centrifuges.

All stages from design to end product are continually subjected to strictest controls.

Evidence is provided by corresponding certificates.

The ISO 9001 certificate accredited to the entire company proves the extreme care and responsibility Hettich puts into the manufacture of centrifuges and their accessories.

ROTANTA 460 S
benchtop centrifuge
dimensions (HxWxD):
453 x 554 x 707 mm
Cat. No. **5601**



ROTANTA 460 R
benchtop centrifuge,
refrigerated
dimensions (HxWxD):
453 x 770 x 707 mm
Cat. No. **5605**

Control Panels

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.

The large display is well readable. During centrifugation the actual values of the parameters are indicated.

The N Control Panel

With ROTANTA 460, 460 R and 46 RC the N control panel is standard. It features the following functions:

Speed RPM: Input in increments of 10.

Relative centrifugal force RCF: Input in increments of 10.

Change-over RPM/RCF: By entering the rotor radius r/mm the centrifuge calculates and indicates speed or RCF.

Time t: Input in minutes and seconds, max. 99 minutes, 59 sec.

Temperature T: With refrigerated models input in increments of 1°C within a range of - 20°C to + 40°C.

Run-up/run-down times: Input of acceleration and braking ramps in levels 1 - 9 or unbraked run-down. Level 9 always represents the shortest possible run-up or run-down.

Impulse key: For short centrifuging operations. The rotor spins at the preselected speed or RCF as long as the key is pressed.

Memory: 3 complete running programmes can be stored and recalled. They remain in the memory even after the centrifuge has been switched off.



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 programmes, the clearly arranged display with its selector keys and adjusting knob provides extreme user-friendliness.

Speed RPM: Input in increments of 10.

Relative centrifugal force RCF: Input in increments of 1.

Radius r: Input in mm, when RPM or RCF need to be determined.

Time t: Input in minutes and seconds, max. 999 min, 59 sec.

Run-up/run-down times: Input of acceleration and braking ramps in levels 1 - 9, or time-controlled in minutes and seconds. 0 = unbraked run-down.

Deceleration with brake force cut-off: Input of the cut-off speed in RPM.

Integral of the centrifugal acceleration provides continuous information on the accumulated RCF the centrifuged material is exposed to during centrifugation.

Temperature T: With refrigerated models input in increments of 1°C within a range of - 20°C to + 40°C.

Memory: Up to 89 complete programmes can be memorized and recalled by their storing number. They remain in the memory even after the centrifuge has been switched off.

Optional equipment

for special routine or scientific applications with centrifuges featuring the S control panel.

Data report system

Detailed information on the Hettich data report system is presented in our brochure HETTINFO, which we will be happy to send you on request.

Chaining of programmes allows to programme the centrifuge to run different programmes in succession.

Second independent tacho system for calibrating the speed measuring instrument as required by quality management systems.

Key-operated switch for locking and protecting programmes.

ROTANTA 460 RS

benchtop centrifuge, refrigerated
dimensions (HxWxD):
453 x 770 x 707 mm

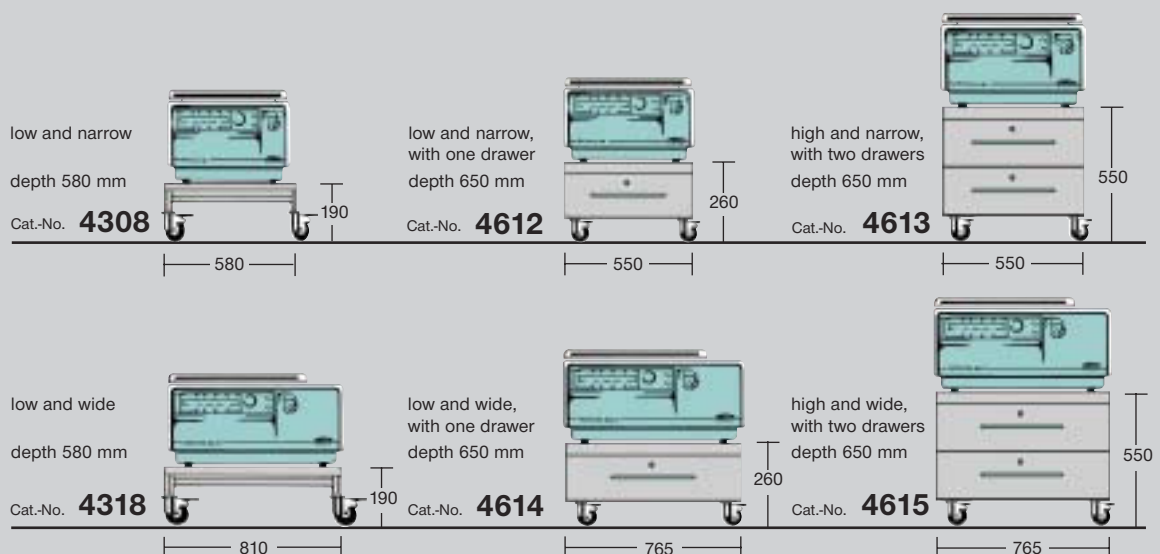
Cat. No. **5606**

illustrated on rolling cabinet No.4615



Save space on the laboratory bench and gain more flexibility with trolleys and rolling cabinets for Hettich centrifuges.

All trolleys and cabinets are of sturdy design and feature large castors and two locks. Any vibrations of the centrifuge are safely compensated.



Rotors

Quick overview of rotors and suitable accessories.

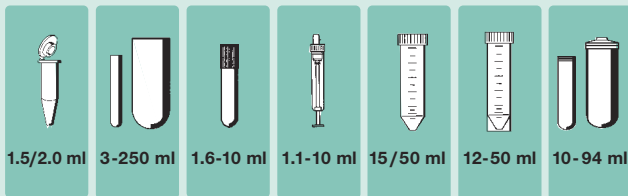
The figures highlighted in the arrows refer to the pages where technical and ordering details are listed.



illustrated with buckets No. 5620 and transparent lids No. 5621

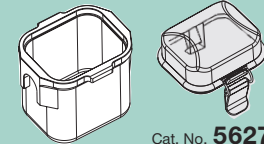
Swing-out rotor, 4-place, n = 4,600 min⁻¹

Cat. No. **5624** without buckets



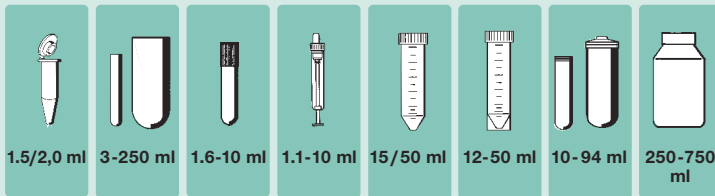
1.5/2.0 ml 3-250 ml 1.6-10 ml 1.1-10 ml 15/50 ml 12-50 ml 10-94 ml

n = 4,600 min⁻¹
RCF 4,637



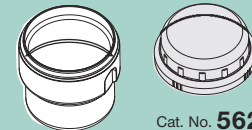
Cat. No. **5625** aerosol-tight

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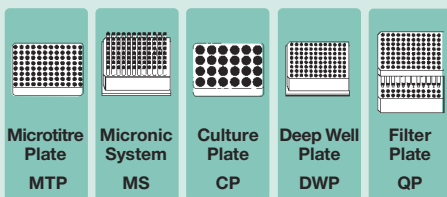
1.5/2.0 ml 3-250 ml 1.6-10 ml 1.1-10 ml 15/50 ml 12-50 ml 10-94 ml 250-750 ml

n = 4,600 min⁻¹
RCF 4,779



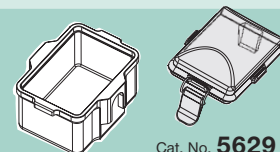
Cat. No. **5620** aerosol-tight

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Microtitre Plate MTP
Micronic System MS
Culture Plate CP
Deep Well Plate DWP
Filter Plate QP

n = 4,600 min⁻¹
RCF 4,235



Cat. No. **5628** aerosol-tight

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90°

Swing-out rotor, 4-place, n = 4,000 min⁻¹

Cat. No. **5694** without buckets

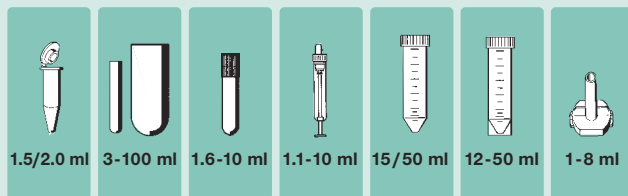
illustrated with buckets No. 5091 and transparent lids No. 5095



90°

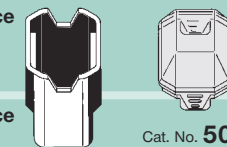
Swing-out rotor, 6-place, n = 4,000 min⁻¹

Cat. No. **4446** without buckets



1.5/2.0 ml 3-100 ml 1.6-10 ml 1.1-10 ml 15/50 ml 12-50 ml 1-8 ml

rotor 5694 4-place
n = 4,000 min⁻¹
RCF 2,916



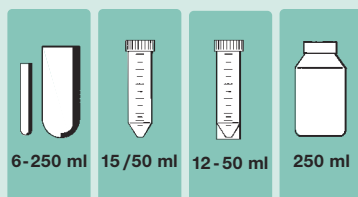
Cat. No. **5091**

Page 11

rotor 4446 6-place
n = 4,000 min⁻¹
RCF 3,452

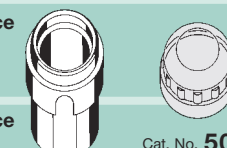
Cat. No. **5095**

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6-250 ml 15/50 ml 12-50 ml 250 ml

rotor 5694 4-place
n = 4,000 min⁻¹
RCF 3,095









Cat. No. **5092** aerosol-tight







Page 12

rotor 4446 6-place
n = 4,000 min⁻¹
RCF 3,631


Cat. No. **5093**

Page 13




 Microtitre Plate MTP	 Micronic System MS	 Culture Plate CP	 Deep Well Plate DWP	 Filter Plate QP	<p>Swing-out rotor, 2-place, ROTANTA 460/460 S n = 5,900 min⁻¹, RCF 5,858</p> <p>Cat. No. 4620</p>	 <p>ROTANTA 460 R/460 RS ROTANTA 46 RC/46 RSC n = 6,200 min⁻¹, RCF 6,446</p> <p>rotor illustrated with buckets No. 4623, aerosol-tight sealed with lid No. 4627.</p>	<p>Page 13</p>
<p>90°</p>							



 1.5/2.0 ml	 15/25 ml	 7.5-10 ml	 15/50 ml	 10-94 ml	<p>Angle rotor, 6-place, n = 11,500 min⁻¹, RCF 18,038</p> <p>Cat. No. 5615</p> <p>aerosol-tight</p>	 <p>45°</p> <p>autoclavable up to 134°C</p>	<p>Page 14</p>
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 250 ml	<p>Angle rotor, 6-place, ROTANTA 460 n = 8,500 min⁻¹, RCF 11,228</p> <p>Cat. No. 5645</p> <p>aerosol-tight</p>	 <p>25°</p> <p>autoclavable up to 134°C</p>	<p>Page 15</p>
<p>ROTANTA 460 R n = 9,500 min⁻¹, RCF 14,025</p>			

 1.5/2.0 ml	<p>Angle rotor, 30-place, n = 15,000 min⁻¹, RCF 24,400</p> <p>Cat. No. 4489</p> <p>aerosol-tight</p>	 <p>45°</p> <p>autoclavable up to 134°C</p>	<p>Page 14</p>
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 25/50 ml	<p>Disc rotor, 6-place, for Schlenk tubes n = 2,000 min⁻¹, RCF 805</p> <p>Cat. No. 5616</p>	 <p>45°</p>	<p>Page 15</p>
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 50/100 ml	 100 ml	<p>Swing-out rotor, 4-place, for ASTM tubes n = 2,000 min⁻¹, RCF 984</p> <p>Cat. No. 4474</p>	 <p>90°</p>	<p>Page 15</p>
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 30 ml	<p>Disc rotor, 6-place, for chrome bath tubes n = 2,000 min⁻¹, RCF 917</p> <p>Cat. No. 4619</p>	 <p>90°</p>	<p>Page 15</p>
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Accessories



Swing-out rotor, 4-place,
No. 5624,
 illustrated with buckets No. 5620,
 transparent lids No. 5621 and
 frame No. 4833 for 19 tubes.
 n = 4,600 min⁻¹

capacity ml	1.5/2.0	3	4	4	5	6	7
dimensions ØxLmm	11 x 38	10 x 60	10 x 88	12 x 60	12 x 75	12 x 82	12 x 100
Cat.-No.	2078/0536	-	-	-	-	0501	0578
lid No. 5627 aerosol- tight							
Cat.-No. 5625							
Cat.-No.	4730	4730	4730	4732	4732	4732	4732
tubes per rotor	224	120		80			
RCF	3,691/4,637	4,637					
radius in mm	156/196	196					
run-up in sec	90						
run-down in sec	☐ 95 ☐ 960						
temperature °C ¹⁾	14						

capacity ml	10	12	15	25	50	85	100	100	250
dimensions ØxLmm	17 x 70	16 x 102	17 x 100	24 x 100	35 x 105	38 x 106	40 x 115	44 x 100	65 x 115
Cat.-No.	2079	0544	0518	0519	0548	0549	0523	0526	0530
lid No. 5627 aerosol- tight									
Cat.-No. 5625									
Cat.-No.	4733	4733	4733	4734	4735	4736	4736	4737	4738
tubes per rotor	68		24		12		8		4
RCF	4,637				4,519		4,637		4,519
radius in mm	196				191		196		191
run-up in sec	90								
run-down in sec	☐ 95 ☐ 960								
temperature °C ¹⁾	14								

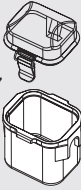


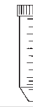


















capacity ml	1.1 - 1.4	2.7 - 3	2.6 - 2.9	4.5 - 5	4.9	4 - 5.5	7.5 - 8.2	9 - 10	1.6 - 5	4 - 7	4 - 7	8.5 - 10
dimensions ØxLmm	8 x 66	11 x 66	13 x 65	11 x 92	13 x 90	15 x 75	15 x 92	16 x 92	13 x 75	13 x 100	16 x 75	16 x 100
Cat.-No.	blood collection tubes											
lid No. 5627 aerosol- tight												
Cat.-No. 5625												
Cat.-No.	4730	4732	4732	4732	4732	4733	4733	4733	4732	4732	4733	4733
tubes per rotor	120	80			68			80		68		
RCF	4,637											
radius in mm	196											
run-up in sec	90											
run-down in sec	☐ 95 ☐ 960											
temperature °C ¹⁾	14											

☐ braked run-down at level 9 ☐ unbraked run-down

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

Please take care not exceed the tubes' max. permissible RCF. ²⁾ For glass tubes the max. RCF is 4,000.

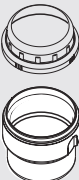















Please take care not exceed the tubes' max. permissible RCF.



















capacity ml	15	50	12	25 / 30	50	10	30	50	85	94
dimensions ØxLmm	17 x 120	29 x 115	17 x 100	25 x 90/110	29 x 115	16 x 80	26 x 95	29 x 107	38 x 106	38 x 102
Cat.-No.	0509	0513	-	-	-	-	0545	0546	0547	0538*
 lid No. 5627 aerosol-tight  Cat.-No. 5625			 ³⁾	 ³⁾	 ³⁾					
										
Cat.-No.	4739	4740	4739	4734	4740	4733	4734	4740	4736	4736
tubes per rotor	48	20	48	24	20	68	24	20	12	
RCF	4,637								4,519	
radius in mm	196								191	
run-up in sec	90									
run-down in sec	☐ 95 ☐ 960									
temperature °C ¹⁾	14									

³⁾ When using these tubes, the inserts need to be taken out of the frames.

* A screw cap for tube No. 0538 is available with Cat. No. 0539 (dimensions with lid 38 x 106 mm).



capacity ml	1.5/2.0	3	4	4	5	6	7
dimensions ØxLmm	11 x 38	10 x 60	10 x 88	12 x 60	12 x 75	12 x 82	12 x 100
Cat.-No.	2078/0536	-	-	-	-	0501	0578
 lid No. 5621 aerosol-tight  Cat.-No. 5620						 ²⁾	 ²⁾
							
Cat.-No.	4830	4830	4830	4832	4832	4832	4832
tubes per rotor	192	96		76			
RCF	3,691/4,637		4,637				
radius in mm	156/196		196				
run-up in sec	90						
run-down in sec	☐ 95 ☐ 960						
temperature °C ¹⁾	14						

capacity ml	10	15	25	50	85	100	100	250
dimensions ØxLmm	17 x 70	17 x 100	24 x 100	35 x 105	38 x 106	40 x 115	44 x 100	65 x 115
Cat.-No.	2079	0518	0519	0548	0549	0523	0526	0530
 lid No. 5621 aerosol-tight  Cat.-No. 5620		 ²⁾	 ²⁾			 ²⁾	 ²⁾	 ²⁾
								
Cat.-No.	4833	4833	4834	4835	4836	4836	4837	4838
tubes per rotor	76		28	16	12		8	4
RCF	4,637		4,519		4,637		4,519	
radius in mm	196		191		196		191	
run-up in sec	90							
run-down in sec	☐ 95 ☐ 960							
temperature °C ¹⁾	14							

The frames for buckets No. 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.

☐ braked run-down at level 9

☐ unbraked run-down

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

²⁾ For glass tubes the max. RCF is 4,000.

Please take care not exceed the tubes' max. permissible RCF.

²⁾ For glass tubes the max. RCF is 4,000.

Accessories



capacity ml	1.1 - 1.4	2.7 - 3	2.6 - 2.9	4.5 - 5	4.9	4 - 5.5	7.5 - 8.2	9 - 10
dimensions ØxLmm	8 x 66	11 x 66	13 x 65	11 x 92	13 x 90	15 x 75	15 x 92	16 x 92
Cat.-No.	blood collection tubes							
lid No. 5621 aerosol-tight Cat.-No. 5620								
Cat.-No.	4830	4832	4832	4832	4832	4833	4833	4833
tubes per rotor	96	76						
RCF	4,637							
radius in mm	196							
run-up in sec	90							
run-down in sec	☐ 95 ☐ 960							
temperature °C ¹⁾	14							

capacity ml	1 - 5	2 - 3.6	4 - 7	4 - 7	8	8 - 10	15	50	12	25/30	50
dimensions ØxLmm	13 x 75	9 x 120	13 x 100	16 x 75	16 x 125	16 x 100	17 x 120	29 x 115	17 x 100	25x90/110	29 x 115
Cat.-No.	blood collection tubes						0509	0513	-	-	-
lid No. 5621 aerosol-tight Cat.-No. 5620											
Cat.-No.	4832	4830	4832	4833	4833	4833	4839	4840	4839	4834	4840
tubes per rotor	76	48	76	76			56	20	56	28	20
RCF	4,637										
radius in mm	196										
run-up in sec	90										
run-down in sec	☐ 95 ☐ 960										
temperature °C ¹⁾	14										

³⁾ When using these tubes, the inserts need to be taken out of the frames.

⁴⁾ When using these tubes bucket 5620 resp. 5091 cannot be closed with lid 5621 resp. 5095.

* A screw cap for tube No. 0538 is available with Cat. No. 0539 (dimensions with lid 38 x 106 mm).

capacity ml	10	30	50	85	94	250	400	450	580	750
dimensions ØxLmm	16 x 80	26 x 95	29 x 107	38 x 106	38 x 102	62 x 122	81 x 136	70 x 159	87 x 147	97 x 152
Cat.-No.	-	0545	0546	0547	0538*	5127	-	4457	0510	0512
lid No. 5621 aerosol-tight Cat.-No. 5620										
Cat.-No.	4833	4834	4840	4836	4836	4841	4842	4843	4844	4845
tubes per rotor	76	28	20	12			4			
RCF	4,637			4,519			4,779			
radius in mm	196			191			202			
run-up in sec	90									
run-down in sec	☐ 95 ☐ 960									
temperature °C ¹⁾	14									

☐ braked run-down at level 9 ☐ unbraked run-down

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

Please take care not exceed the tubes' max. permissible RCF. ²⁾ For glass tubes the max. RCF is 4,000.

Please take care not exceed the tubes' max. permissible RCF.



Swing out-rotor, 4-place, **No. 5624**
illustrated with buckets No. 5628,
transparent lids No. 5629 and
plate removal frame No. 4626.
n = 4,600 min⁻¹

* max. adaptable size
(D x W x H)
86 x 128 x 85 mm

dimensions D x W x H*	86x128 x 83	86x128 x44.5	86 x 128 x 46	86 x 128 x 22	86 x 128 x 17.5	86 x 128 x 15
plates	QP	DWP	MS	CP	MTP	
lid No. 5629 aerosol- tight						
Cat.-No. 5628						
Cat.-No.	4626					
plates per rotor	4		16		20	24
RCF	4,235					
radius in mm	179					
run-up in sec	90					
run-down in sec	<input type="checkbox"/> 95 <input type="checkbox"/> 960					
temperature °C ¹⁾	10					



Swing out-rotor, 4-place,
No. 5694,
illustrated with buckets No. 5091
and transparent lids No. 5095.
n = 4,000 min⁻¹

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

capacity in ml	1.5/2.0	1.5/2.0	6	7	15	25	50	100	100	two-tier frame for cyto preparations
dimensions ØxLmm	11 x 38	11 x 38	12 x 82	12 x 100	17 x 100	24 x 100	34 x 100	40 x 115	44 x 100	
Cat.-No.	2078 0536	2078 0536	0501	0578	0507	0519	0521	0523	0526	Please ask for our detailed cyto brochure!
lid No. 5095										
Cat.-No. 5091										
Cat.-No.	5257	5281	5227	5247	5248	5242	5243	5249	5262	5280
tubes per rotor	160	64	80	80	48	20	8	4		8
RCF	1,968/2,844	2,612	2,791	2,773			2,755		2,236/3,238	
radius in mm	110/159	146	156	155			154		127/181	
run-up time in s	32									
run-down time in s	<input type="checkbox"/> 34 <input type="checkbox"/> 265									
temperature °C ¹⁾	-6									

continuation of bucket 5091 in rotor 5694

1.1 - 1.4	2.7 - 3	2.6 - 2.9	4 - 5.5	4.5 - 5	4.9	7.5 - 8.2	9 - 10	1.6 - 5	4 - 7	4 - 7	8.5 - 10	15	50	12/15	30	50	
8,5 x 66	11 x 66	13 x 65	15 x 75	11 x 92	13 x 90	15 x 92	16 x 92	13 x 75	13 x 100	16 x 75	16 x 100	17 x 120	29 x 115	17x100/120	25 x 110	29 x 115	
blood collection tubes												0509	0513	-	-	-	
80	80	48	48	80	48	48	44	48	48	48	48	28	8	28	20	8	
2,755	2,791	2,826	2,791	2,773	2,826	2,773	2,773	2,826	2,773	2,791	2,773	2,916	2,844	2,916	2,755	2,773	
154	156	158	156	155	158	155	155	158	155	156	155	163	159	163	154	155	
32																	
<input type="checkbox"/> 34 <input type="checkbox"/> 265																	
-6																	

braked run-down at level 9 unbraked run-down

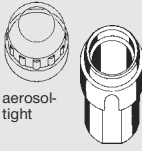















¹⁾ Lowest attainable temperature at max. speed in the refrigerated centrifuges

²⁾ For glass tubes the max. RCF is 4,000.

Please take care not exceed the tubes' max. permissible RCF.

²⁾ For glass tubes the max. RCF is 4,000.

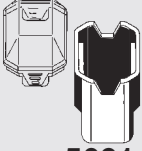













Accessories

capacity ml	6	7	15	25	50	100	100	250	250	15	50	12/15	25	30	50
dimensions ØxLmm	12 x 82	12 x 100	17 x 100	24 x 100	34 x 100	44 x 100	40 x 115	65 x 115	62 x 122	17 x 120	29 x 115	17x100/120	25 x 90	25 x 110	29 x 115
Cat.-No.	0501	0578	0507	0519	0521	0526	0523	0530	5127	0509	0513	-	-	-	-
hygiene lid No. 5093  aerosol-tight Cat.-No. 5092															
Cat.-No.	5128	5120	5121	5122	5124	5125	5126	1057	6319	5129	5123	5121	5134	5122	5135
tubes per rotor	48	48	28	16	4	4			4	28	8	28	12	16	8
RCF	3,005		2,898	2,969	2,952			3,095	3,095		3,005	2,826	2,791	3,023	
radius in mm	168		162	166	165			173	173		168	158	156	169	
run-up in sec	32														
run-down in sec	☐34 ☐265														
temperature °C ¹⁾	-6														



Swing out-rotor, 6-place, **No. 4446**,
illustrated with buckets No. 5091 and
transparent lids No. 5095.
n = 4,000 min⁻¹

³⁾ When using these tubes bucket 5091 resp. 5092 cannot be closed with lid 5095 resp. 5093.

capacity ml	1.5 / 2.0	1.5 / 2.0	3	6	7	15	25	50	100	100	12/15	30	50
dimensions ØxLmm	11 x 38	11 x 38	10 x 60	12 x 82	12 x 100	17 x 100	24 x 100	34 x 100	40 x 115	44 x 100	17x100/120	25 x 110	29 x 115
Cat.-No.	2078/0536	2078/0536	-	0501	0578	0507	0519	0521	0523	0526	-	-	-
lid No. 5095  Cat.-No. 5091													
Cat.-No.	5281	5257	5267	5227	5247	5248	5242	5243	5249	5262	6306	5266	5243
tubes per rotor	96	240	120	120	120	72	30	12	6		42	30	12
RCF	3,148	2,504 / 3,381	3,291	3,327	3,309			3,291		3,363	3,291	3,309	
radius in mm	176	140 / 189	184	186	185			184		188	184	185	
run-up in sec	45												
run-down in sec	☐55 ☐551												
temperature °C ¹⁾	4												

☐ braked run-down at level 9

☐ unbraked run-down

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

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

Please take care not exceed the tubes' max. permissible RCF. ²⁾ For glass tubes the max. RCF is 4,000.

Please take care not exceed the tubes' max. permissible RCF.

capacity ml	1.1 - 1.4	2.7 - 3	2.6 - 2.9	4 - 5.5	4.5 - 5	4.9	7.5 - 8.2	9 - 10	1.6 - 5	4 - 7	4 - 7	8.5 - 10	15	50	Two-stage frame for cyto-preparation
dimensions ØxLmm	8 x 66	11 x 66	13 x 65	15 x 75	11 x 92	13 x 90	15 x 92	16 x 92	13 x 75	16 x 75	13 x 100	16 x 100	17 x 120	29 x 115	
Cat.-No.	blood collection tubes												0509	0513	
lid No. 5095 															Please ask for our brochure „The Unique Hettich-Cyto-System“
Cat.-No.	5267	5227	5268	5264	5247	5268	5248	5258	5268	5264	6301	5248	6306	5259	5280
tubes per rotor	120	120	72	72	120	72	72	66	72	72	72	72	42	12	12
RCF	3,291	3,327	3,363	3,327	3,309	3,363	3,309		3,363	3,327	3,309		3,452	3,381	2,272/3,238
radius in mm	184	186	188	186	185	188	185		188	186	185		193	189	127/181
run-up in sec	45														
run-down in sec	☐ 55 ☐ 551														
temperature °C ¹⁾	4														

capacity ml	6	7	15	25	50	100	100	250	250	15	50	12/15	25	30	50
dimensions ØxLmm	12 x 82	12 x 100	17 x 100	24 x 100	34 x 100	44 x 100	40 x 115	65 x 115	62 x 122	17 x 120	29 x 115	17x100/120	25 x 90	25 x 110	29 x 115
Cat.-No.	0501	0578	0507	0519	0521	0526	0523	0530	5127	0509	0513	-	-	-	-
lid No. 5093 															
Cat.-No.	5128	5120	5121	5122	5124	5125	5126	1057	6319	5129	5123	5121	5134	5122	5135
tubes per rotor	72	72	42	24	6	6			6	42	12	42	18	24	12
RCF	3,542		3,434		3,506	3,488			3,631	3,631		3,542	3,363	3,327	3,560
radius in mm	198		192		196	195			203	203		198	188	186	199
run-up in sec	45														
run-down in sec	☐ 55 ☐ 551														
temperature °C ¹⁾	4														



* max. adaptable size
(D x W x H) 86 x 128 x 85 mm

Swing-out rotor, 2-place, **No. 4620**, illustrated with buckets No. 4623, transparent lids No. 4627 and plate removal frame No. 4626.

n = 5,900 min⁻¹ / 6,200 min⁻¹

dimensions D x W x H*	86x128x 83	86x128x44,5	86 x 128 x 46	86 x 128 x 22	86x128x17,5	86 x 128 x 15
plates	QP	DWP	MS	CP	MTP	
lid No. 4627 						
Cat.-No.	4626					
plates per rotor	2		8		10	12
RCF ROTANTA 460 R	6,446					
RCF ROTANTA 460	5,858					
radius in mm	max. 150					
run-up in sec	55 / 50					
run-down in sec	☐ 53 ☐ 600 ☐ 48 ☐ 600					
temperature °C ¹⁾	12					

☐ braked run-down at level 9 ☐ unbraked run down ¹⁾ Lowest attainable temperature at max. speed in the refrigerated centrifuges

²⁾ For glass tubes the max. RCF is 4,000.

Please take care not exceed the tubes' max. permissible RCF.


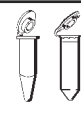







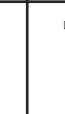
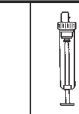



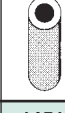
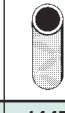
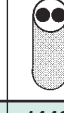




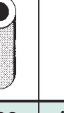
²⁾ For glass tubes the max. RCF is 4,000.

Accessories



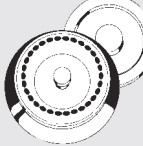










Angle rotor, 6-place, **No. 5615**
n = 11,500 min⁻¹

* A screw cap for tube No. 0538 is available with Cat. No. 0539 (dimensions with lid 38 x 106 mm)

capacity ml	1.5/2.0	15	25	10	30	50	85	94	7.5 - 8.2	9 - 10	15	50
dimensions ØxLmm	11 x 38	17 x 100	24 x 100	16 x 80	26 x 95	29 x 107	38 x 106	38x102	15 x 92	16 x 92	17 x 120	29 x 115
Cat.-No.	2078/0536	0518	0519	–	0545	0546	0547	0538*	blood collection tubes		0509	0513
 aerosol-tight Cat.-No. 5615												
												
Cat.-No.	1449	1451	1447	1448	1447	1446	–		1451	1466	1454	
tubes per rotor	24	6	6	12	6	6	6		6	6	6	
RCF	17,299	17,003	16,560	17,003	16,560	17,299	18,038		17,003	17,299	17,595	
radius in mm	117	115	112	115	112	117	122		115	117	119	
run-up in sec	66											
run-down in sec	☐68 ☐641											
temperature °C ¹⁾	12											



Angle rotor, 30-place, **No. 4489**
n = 15,000 min⁻¹

capacity ml	0.2	0.4	0.5	0.8	1.5	2.0
dimensions ØxLmm	6 x 18	6 x 45	8 x 30	8 x 45	11 x 38	11 x 38
Cat.-No.	–	–	–	–	2078	0536
 aerosol-tight Cat.-No. 4489						
					For centrifugation at high speeds we recommend to use adapter No. 2031	
Cat.-No.	2024		2023		–	
tubes per rotor	30					
RCF	24,400					
radius in mm	97					
run-up in sec	73					
run-down in sec	☐77 ☐240					
temperature °C ¹⁾	12					

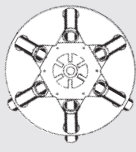



☐ braked run-down at level 9

☐ unbraked run-down

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

Please take care not exceed the tubes' max. permissible RCF. ²⁾ For glass tubes the max. RCF is 4,000.



Please take care not exceed the tubes' max. permissible RCF.

capacity ml	25	50
dimensions ØxLmm	24x146.5	38x148.5
Cat.-No.	0532	0533
		
		
Cat.-No.	4317	-
tubes per rotor	6	6
RCF	783	805
radius in mm	175	180
run-up in sec	17	
run-down in sec	<input checked="" type="checkbox"/> 21 <input type="checkbox"/> 286	
temperature °C ¹⁾	-8	

Disc rotor, 6-place, **No. 5616**
n = 2,000 min⁻¹












Angle rotor, 6-place,
No. 5645
n = 8,500 min⁻¹

capacity ml	250
dimensions ØxLmm	62 x 122
Cat.-No.	5127
	
aerosol-tight	
Cat.-No.	5645
Cat.-No.	-
tubes per rotor	6
RCF ROTANTA 460 R	14,025
RCF ROTANTA 460	11,228
radius in mm	139
run-up in sec	98/115
r.-d.in sec <input type="checkbox"/> <input checked="" type="checkbox"/>	105/120 1,110/1,103
temperature °C ¹⁾	14

Swing-out rotor,
No. 4474
for ASTM tubes,
n = 2,000 min⁻¹





capacity ml	50	100	100	100
dimensions ØxLmm	45 x 130	58 x 161	44 x 168	37 x 200
Cat.-No.	-	0528	-	0531
	 ²⁾	 ²⁾	 ²⁾	 ²⁾
				
Cat.-No.	4278	0771	4277	4276
tubes per rotor	4	4	4	4
RCF	984		966	
radius in mm	220		216	
run-up in sec	45			
run-down in sec	<input type="checkbox"/> 55 <input checked="" type="checkbox"/> 551			
temperature °C ¹⁾	4			

²⁾ The max. permissible RCF for ASTM tubes is 700.

Disc rotor, 6-place,
No. 4619
n = 2,000 min⁻¹



capacity ml	30
	chrome bathtubes
Cat.-No.	0508
	
Cat.-No.	4619
Cat.-No.	-
tubes per rotor	6
RCF	917
radius in mm	205
run-up in sec	17
run-d.in sec <input type="checkbox"/> <input checked="" type="checkbox"/>	21/ 286
temperature °C ¹⁾	-8

braked run-down at level 9 unbraked run-down

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

³⁾ For glass tubes the max. RCF is 4,000.

Please take care not exceed the tubes' max. permissible RCF. ²⁾ For glass tubes the max. RCF is 4,000.

ROTANTA 460



ROTANTA 460
Benchtop centrifuge, without rotor
Cat. No. 5600 Cat. No. 5600-01

ROTANTA 460 S
Benchtop centrifuge, without rotor
Cat. No. 5601 Cat. No. 5601-01



ROTANTA 460 R
Benchtop centrifuge, refrigerated, without rotor
Cat. No. 5605 Cat. No. 5605-01

ROTANTA 460 RS
Benchtop centrifuge, refrigerated, without rotor
Cat. No. 5606 Cat. No. 5606-01

ROTANTA 46 RC **
Underbench centrifuge, refrigerated, without rotor
Cat. No. 4812 Cat. No. 4812-01

ROTANTA 46 RSC **
Underbench centrifuge, refrigerated, without rotor
Cat. No. 4813 Cat. No. 4813-01

Technical Details

* Power supply:	208 - 240 V 1 ~	110-127 V 1 ~	208 - 240 V 1 ~	110-127 V 1 ~
Frequency:	50 - 60 Hz	50 - 60 Hz	50 Hz	60 Hz
Consumption:	1,5 kVA	1,3 kVA	2.4 kVA	2.0 kVA
Radio interference:	EN 55011 ISM class B	FCC class A	EN 55011 ISM class B	FCC class A
Immunity:	EN 50082 - 1	-	EN 50082 - 1	-
Capacity:	4 x 750 ml, swing - out rotor		4 x 750 ml, swing - out rotor	
Speed/RCF:	n = 15,000 min ⁻¹ / RCF 24,400		n = 15,000 min ⁻¹ / RCF 24,400	
Centrifuging chamber temperature:	-		controllable from -20°C to +40°C (with heating / cooling models -20°C to +60°C)	
Running time:	1-99 min. resp. 1-999 min. ("S"), ∞ (continuous run), impulse key (short cycle mode)		1-99 min. resp. 1-999 min. ("S"), ∞ (continuous run), impulse key (short cycle mode)	
Dimensions (H x W x D):	453 x 554 x 707 mm		453 x 770 x 707 mm ROTANTA 460 R/RS 630 x 580 x 685 mm ROTANTA 46 RC/RSC	
Weight:	approx. 89.5 kg		approx. 125 kg ROTANTA 460 R/RS approx. 110 kg ROTANTA 46 RC/RSC	

* other voltages on request ** power supply, frequency and consumption values of ROTANTA 46 RC and 46 RSC centrifuges on request

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