



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

ROTANTA

HT1408 / HT1409



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 HT1409
benchtop centrifuge,
cooled,
dimensions
(H x W x D):
453 x 770 x 707 mm

ROTANTA HT1408
benchtop centrifuge,
dimensions (H x W x D):
453 x 554 x 707 mm

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 HT1408/S and HT1409/S

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
- PROFIL** Run-up and run-down profile.
- n/min⁻¹** Speed indication.
- t/min:sec** Centrifugation time
(max. 999 min : 59 sec).

KEYPAD

- STO** Stores the program.
- RCL** Calls up the selected program.
- PROG** Selects the program menu.
- Entry of the temperature from -20 °C to +40 °C in increments of 1 °C 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 HT1408 and HT1409 the N control panel is standard.

DISPLAY


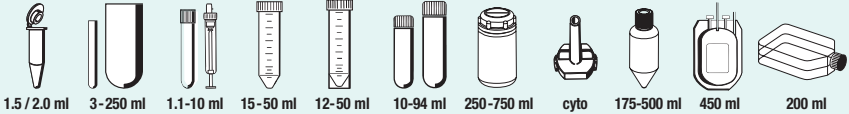
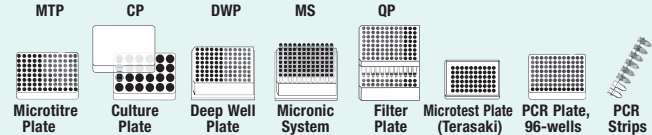

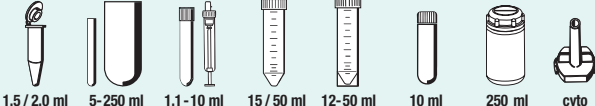

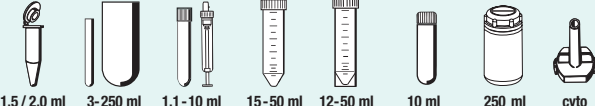

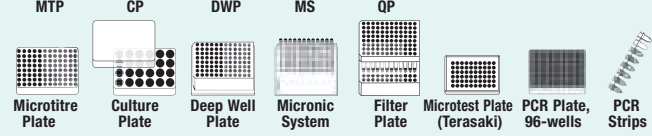



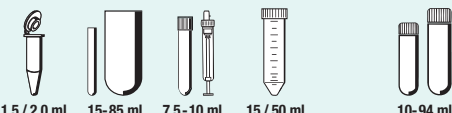

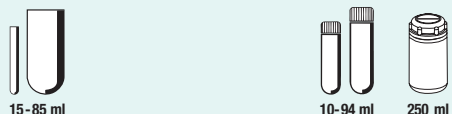

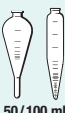




- PROG** Program number. Three programmable memories are available.
- T/°C** Temperature of the refrigerated HT1409. The temperature is infinitely variable between -20 °C and +40 °C.
- >RCF<** Relative centrifugal force.
- RPM** Speed indication. Entry in increments of 10.
- t/min** Centrifugation time (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>Swing-out rotor, 4-place $\pm 90^\circ$ $n = 4,600 \text{ min}^{-1}$ max. RCF 5,063 Cat. No. HTR1601</p>	  <p style="text-align: right;">→ Page 5-11</p>
<p>some accessories with bio-containment</p>  <p>Swing-out rotor, 4-place $\pm 90^\circ$ $n = 4,000 \text{ min}^{-1}$ max. RCF 3,095 Cat. No. HTR1602</p>	 <p style="text-align: right;">→ Page 12-13</p>
<p>some accessories with bio-containment</p>  <p>Swing-out rotor, 6-place $\pm 90^\circ$ $n = 4,000 \text{ min}^{-1}$ max. RCF 3,631 Cat. No. HTR1603</p>	 <p style="text-align: right;">→ Page 14-15</p>
<p>some accessories with bio-containment</p>  <p>Swing-out rotor, 2-place $\pm 90^\circ$ $n = 5,900/6,200 \text{ min}^{-1}$ max. RCF 5,858/6,446 Cat. No. HTR1604</p>	 <p style="text-align: right;">→ Page 16</p>
<p>some accessories with bio-containment</p>  <p>Angle rotor, 30-place $\pm 45^\circ$ $n = 15,000 \text{ min}^{-1}$ max. RCF 24,400 Cat. No. HTR1605</p>	 <p style="text-align: right;">→ Page 16</p>
<p>some accessories with bio-containment</p>  <p>Angle rotor, 6-place $\pm 45^\circ$ $n = 11,500 \text{ min}^{-1}$ max. RCF 18,038 Cat. No. HTR1606</p>	 <p style="text-align: right;">→ Page 17</p>
<p>some accessories with bio-containment</p>  <p>Angle rotor, 6-place $\pm 25^\circ$ $n = 8,500/9,500 \text{ min}^{-1}$ max. RCF 11,228/14,025 Cat. No. HTR1607</p>	 <p style="text-align: right;">→ Page 18</p>
 <p>Swing-out rotor, 4-place, for ASTM tubes $\pm 90^\circ$ $n = 2,000 \text{ min}^{-1}$ max. RCF 984 Cat. No. HTR1608</p>	 <p style="text-align: right;">→ Page 18</p>
 <p>Angle rotor, 6-place, for Schlenk tubes $\pm 45^\circ$ $n = 2,000 \text{ min}^{-1}$ max. RCF 805 Cat. No. HTR1609</p>	 <p style="text-align: right;">→ Page 19</p>
 <p>Swing-out rotor, 6-place, for chrome bath tubes $\pm 90^\circ$ $n = 2,000 \text{ min}^{-1}$ max. RCF 917 Cat. No. HTR1610</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⁻¹
max. RCF 5,063



illustrated with carriers
with bio-containment⁵⁾

Cat. No. (without carriers) HTR1601

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	
Cat. No.	2078	0536	-			0553²⁾	0501²⁾	0578²⁾	2079	0518²⁾	0519²⁾	0521²⁾	0548	0549	
lid with bio-containment ⁵⁾ Cat. 5627															
carrier Cat. No. HTC1701															
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	☐ 95 ☐ 960														
temperature in °C ¹⁾	+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
Cat. No.	0526²⁾	0523²⁾	0530²⁾	blood collection/urine tubes								
lid with bio-containment ⁵⁾ Cat. 5627												
carrier Cat. No. HTC1701												
Cat. No.	4737	4736	4738	4730	4732	4733	4732	4733				
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 ²⁾	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 ¹⁾	+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 2) is 4,000.

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

Accessories



The adapters for carriers HTC1701 and HTC1702 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 HTR1601

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	0538³⁾
lid with bio-containment ⁵⁾ No. 5627																
carrier Cat. No. HTC1701																
Cat. No.	4732		4733		4739⁴⁾	4739	4740	4739⁴⁾	4734		4740⁴⁾	4733	4734	4740⁴⁾	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 ²⁾	4,637															4,495
radius in mm	196															190
run-up in sec	90															
run-down in sec																
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	38x106	40x115
Cat. No.	2078	0536	-			0553²⁾	0501²⁾	0578²⁾	2079	0518²⁾	0519²⁾	-	0521²⁾	0548	0549	0523²⁾
lid with bio-containment ⁵⁾ No. 5621																
carrier Cat. No. HTC1702																
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			
max. RCF ²⁾ upper/lower	3,572 / 4,637			4,637			4,495		4,495							
radius in mm upper/lower	151 / 196		196			190										
run-up in sec	90															
run-down in sec																
temperature in °C ¹⁾	+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 2) is 4,000.
- 3) When using these tubes, carrier HTC1702 cannot be closed with lid 5621.
- 4) 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
Cat. No.	0526²⁾	0530²⁾	blood collection/urine tubes													
lid with bio-containment ⁵⁾ Cat. 5621																
carrier Cat. No. HTC1702																
Cat. No.	4837	4838	4830	4847	4832	4833	4832	4847⁴⁾	4833	4848	4833	4847	4832			
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 ²⁾	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 ☐ ⁹⁶⁰															
temperature in °C ¹⁾	+ 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	
Cat. No.	blood collection/urine tubes										-	0509	0513	0513	-		
lid with bio-containment ⁵⁾ Cat. 5621																	
carrier Cat. No. HTC1702																	
Cat. No.	4847⁴⁾	4833	4848	4833	4848	4839⁴⁾	4839	5647	4840	4839⁴⁾	4834	5647⁴⁾	4840⁴⁾				
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	20			
max. RCF ²⁾	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 ☐ ⁹⁶⁰																
temperature in °C ¹⁾	+ 4																

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

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

Accessories

Swing-out rotor HTR1601

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
Cat. No.	-	-	0545	0546	0546	0547	0538³⁾	5127	0551	0512
lid with bio-containment ⁵⁾ Cat. 5621										
carrier Cat. No. HTC1702										
Cat. No.	4833	4848	4834	4840⁴⁾	5647⁴⁾	4836	4841	4846	4845	
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 ²⁾	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 ¹⁾	+ 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
Cat. No.	2078	0536	0553²⁾	0578²⁾	-	0500²⁾	2079	0518²⁾	0519²⁾	0521²⁾	0526²⁾	blood/urine tubes		
lid with bio-containment ⁵⁾ Cat. 5621														
carrier Cat. No. HTC1703														
Cat. No.	4432	4433	4433			4434		4438	4439	4442	4435	4433	4434	
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 ²⁾ upper/lower	3,407 / 4,542		4,471			4,637		4,353	4,424	4,400	4,471	4,471	4,637	
radius in mm upper/lower	144 / 192		189			196		184	187	186	189	189	196	
run-up in sec	90													
run-down in sec	☐ 95 ☐ 960													
temperature in °C ¹⁾	+ 4													























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














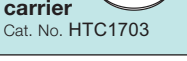










2) Please note that the RCF values indicated refer only to rotor performance. The max. permissible RCF of tubes used should be verified with the individual manufacturers. The max. RCF for glass tubes annotated with footnote ²⁾ is 4,000.

3) When using these tubes, carrier HTC1702 or HTC1703 cannot be closed with lid 5621.

4) Please remove the inserts.

Swing-out rotor HTR1601

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	
Cat. No.	blood collection/urine tubes											-	0509	0513
lid with bio-containment ⁵⁾ Cat. 5621 														
carrier Cat. No. HTC1703 														
Cat. No.	4433	4435	4434			4435		4434			4437		4441	
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 ²⁾	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 ¹⁾	+ 4													





capacity in ml	25	30	250	600	750	175	175	200	225	250	500	450	
Ø x L in mm	25 x 90	25 x 110	61 x 122	93 x 134	97 x 152	61 x 118	62 x 144	60 x 130	61 x 137	60 x 172	96 x 147	triplicate system without filter	
Cat. No.	-	-	5127	0551	0512	Falcon®	Nalgene®	Nunc®	Falcon®	Corning	Corning	blood bag	
lid with bio-containment ⁵⁾ Cat. 5621 													
carrier Cat. No. HTC1703 													
Cat. No.	4438	4443	4466	4451	4440	4430	4440	4430	4449	-			
boring Ø x L in mm	26x72		62x92	94x90	98x116	-							
tubes per rotor	28		4	4		4							
max. RCF ²⁾	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 ¹⁾	+ 4												

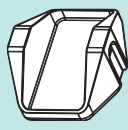
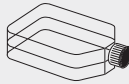


⁵⁾ Tested by the TÜV in conformity with DIN EN 61010, section 2-020.

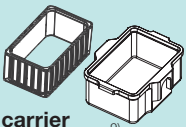






























⁸⁾ The screw cap for tube No. 0538 is available with Cat. No. 0539. Dimensions with cap 38 x 106 mm.

Accessories

Swing-out rotor HTR1601

capacity in ml	450	
blood bags	triplicate system	quadruplicate system
Cat. No.	5693	5695
 carrier Cat. No. HTC1704	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	 95  960	
temperature in °C ¹⁾	+11	

capacity in ml	200
L x W x H in mm	146 x 79 x 36.5
Cat. No.	-
 carrier Cat. No. HTC1711	
Cat. No.	-
boring Ø x L in mm	-
flasks per rotor	4
max. RCF ²⁾	3,783
radius in mm	158
run-up in sec	90
run-down in sec	 95  960
temperature in °C ¹⁾	+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
Cat. No.	2078	0536	-	0553²⁾	0501²⁾	0578²⁾	0519²⁾	0521²⁾	0526²⁾	0523²⁾	0530²⁾	blood/urine tubes				
 carrier Cat. No. HTC1705 ³⁾	 + 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	 + 5220-A
																
Cat. No.⁴⁾	5281	5267		5268			5242	5243	5262	5249	5263-A	5267	5268	5227	5264	5227
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 ²⁾	4,164		4,069	4,164			4,093		4,069		4,045	4,069	4,164	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 ¹⁾	+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 2) is 4,000.

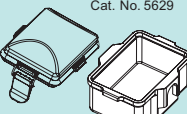









4) Please remove the inserts.



illustrated with carriers HTC1705
and lids 5629
with bio-containment⁵⁾
and removal frame 4626

Swing-out rotor Cat. No. (without carriers) HTR1601

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	
Cat. No.	blood collection/urine tubes							0509	-	-	0513	5127	cyto chambers¹¹⁾
(use of lid 5629 is not possible) adapting frame Cat. No. 5220-A  carrier Cat. No. HTC1705 ⁹⁾	 + 5220-A	 + 5220-A	 + 5220-A	 + 5220-A	 + 5220-A	 + 5220-A	 + 5220-A	 + 5220-A	 + 5220-A	 + 5220-A	 + 5220-A	 + 5220-A + 6319	
Cat. No.¹⁰⁾	5268	5264	5258	5268	5264	5268	5258	6337-A	5266⁴⁾	6339-A	6338-A	5263-A⁴⁾	5280
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 ²⁾	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 ¹⁾	+ 4												

D x W x H in mm	86x128x15	86x128x17.5	86x128x22	86x128x44.5	86x128x46	86x128x83	59x84x11	82x124x20	-	
capacity in ml	-									0.2
Cat. No.	MTP		CP	DWP	MS	QP	Microtest plate (Terasaki)	PCR plate, 96 wells	PCR strips	
lid with bio-containment ⁵⁾ Cat. No. 5629  carrier Cat. No. HTC1705 ⁹⁾										
Cat. No.	4626							4626 + 1469		
boring Ø x L in mm	-									
plates/strips per rotor	24	20	16	4		8	4	48x8		
max. RCF ²⁾	4,211									
radius in mm	max. 178									
run-up in sec	90									
run-down in sec	☐ 95 ○ 960									
temperature in °C ¹⁾	+ 4									

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

⁹⁾ 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⁾ With the exception of adapters 6337-A, 6338-A, 6339-A and 5263-A, two of these adapters need to be placed into carrier HTC1705.

¹¹⁾ Please ask for our detailed cyto brochure.

Accessories

Swing-out rotor, 4-place



↻ 90°

n = 4,000 min⁻¹
max. RCF 3,095

illustrated with carriers HTC1706
and lids 5053

Cat. No. (without carriers) HTR1602

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
Cat. No.	-	-	2078	0536	0553²⁾	0501²⁾	0578²⁾	0518²⁾	0519²⁾	0521²⁾	0526²⁾	0523²⁾	blood collection tubes			
lid Cat. No. 5053																
carrier Cat. No. HTC1708																
Cat. No.	5257	5281	5227	5247¹²⁾	5248¹²⁾	5242	5243	5262	5249	5267	5268	5227	5264			
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	80			
max. RCF ²⁾ 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 ¹⁾	-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	
Cat. No.	blood collection/urine tubes										0509	0513	-	-	cyto chambers¹¹⁾
lid Cat. No. 5053															
carrier Cat. No. HTC1708															
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	☐ 51 ☐ 265														
temperature in °C ¹⁾	-3														

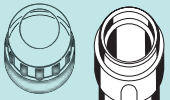
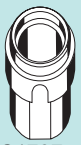




























¹⁾ Lowest attainable temperature in precooled refrigerated centrifuges at max. speed.

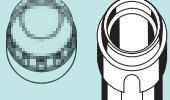
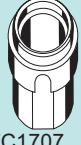




























²⁾ Please note that the RCF values indicated refer only to rotor performance. The max. permissible RCF of tubes used should be verified with the individual manufacturers. The max. RCF for glass tubes annotated with footnote ²⁾ is 4,000.

³⁾ When using these tubes, carrier HTC1706 or HTC1707 cannot be closed with lid 5053 or 5093.

⁴⁾ Please remove the inserts.

Swing-out rotor HTR1602

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
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. HTC1707 																
																
Cat. No.	5128	5120	5136	5122	5124	5125	5126	1791	5137	5136	5120	5137	5136	5120	5137	
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	17.5x60.7	12.8x82	13.5x60.7	
tubes per rotor	48		32	16	4				32	32	48	32				
max. RCF ²⁾	3,005		2,952	2,898	2,952	2,952	3,095	2,952	2,952	3,095	2,952	2,952	3,005	2,952		
radius in mm	168		165	162	165	165	173	165	173	165	165	165	168	165		
run-up in sec	42															
run-down in sec	☐ 51 ○ 265															
temperature in °C ¹⁾	-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
Cat. No.	blood collection/urine tubes									0509	0513	-				5127
lid with bio-containment ⁵⁾ Cat. No. 5093  carrier Cat. No. HTC1707 																
																
Cat. No.	5136	5137	5120	5136	5121⁴⁾	5136	5129	5123	5121	5134	5122	5135	5136	6319		
boring Ø x L in mm	17.5x60.7	13.5x60.7	12.8x82	17.5x82	17.5x82	17.5x82	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 ²⁾	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 ¹⁾	-3															

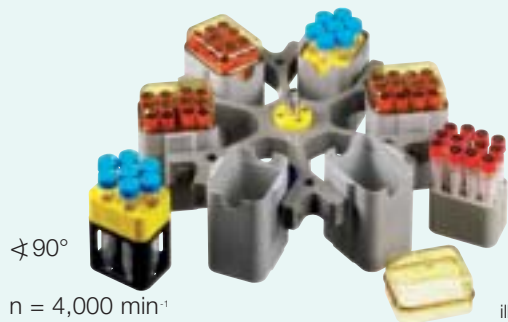
⁵⁾ Tested by the TÜV in conformity with DIN EN 61010, section 2-020.

¹⁾ Please ask for our detailed cyto brochure.

¹²⁾ 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⁻¹
max. RCF 3,631

illustrated with carriers HTC1706

Cat. No. (without carriers) HTR1603

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	11 x 38		11 x 38		10 x 60	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	
Cat. No.	-	-	2078	0536	-	0553²⁾	0501²⁾	0578²⁾	0518²⁾	0519²⁾	0521²⁾	0526²⁾	0523²⁾	blood collection tubes				
lid Cat. No. 5053																		
carrier Cat. No. HTC1706																		
Cat. No.	5257	5281	5267	5227	5247¹⁾²⁾	5248¹⁾²⁾	5242	5243	5262	5249	5267	5268	5227	5264				
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 ²⁾ upper/lower	2,486/3,363	3,363	3,274	3,309	3,291		3,291		3,291		3,274	3,345	3,309	3,309				
radius in mm upper/lower	139/188	188	183	185	184		184		184		183	187	185	185				
run-up in sec	45																	
run-down in sec	☐ 55 ☐ 551																	
temperature in °C ¹⁾	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	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 chambers¹⁾	
lid Cat. No. 5053																
carrier Cat. No. HTC1706																
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	120	72	72	66	72			42	12	42	30	12	12	12		
max. RCF ²⁾	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 ¹⁾	0															

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

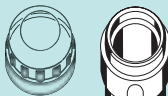
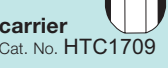


²⁾ Please note that the RCF values indicated refer only to rotor performance. The max. permissible RCF of tubes used should be verified with the individual manufacturers. The max. RCF for glass tubes annotated with footnote ²⁾ is 4,000.


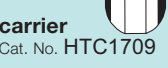


³⁾ When using these tubes, carrier HTC1708 or HTC1709 cannot be closed with lid 5053 or 5093.



illustrated with carriers HTC1709
and lids 5093
with bio-containment⁵⁾

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
Cat. No.	0553 ²⁾	0501 ²⁾	0578 ²⁾	0518 ²⁾	0519 ²⁾	0521 ²⁾	0526 ²⁾	0523 ²⁾	0530 ²⁾	blood collection tubes						
lid with bio-containment ⁵⁾ Cat. No. 5093																
carrier Cat. No. HTC1709																
Cat. No.	5137	5120	5136	5122	5124	5125	5126	1791	5137				5136	5120	5136	
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 ²⁾	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 ¹⁾	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	
Cat. No.	blood collection/urine tubes								0509	0513	-				-	5127
lid with bio-containment ⁵⁾ Cat. No. 5093																
carrier Cat. No. HTC1709																
Cat. No.	5136	5137	5120	5136	5121	5136	5129	5123	5121	5134	5122	5135	5136	6319		
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 ²⁾	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 ¹⁾	0															

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

¹⁾ Please ask for our detailed cyto brochure.

²⁾ 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⁻¹
max. RCF 5,858/6,446

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

Cat. No. (without carriers) HTR1604

Angle rotor, 30-place

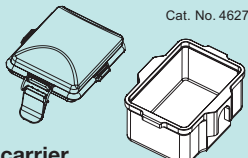









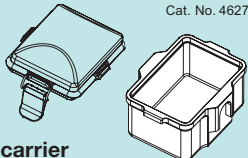


↻ 45°

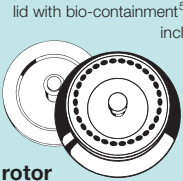






n = 15,000 min⁻¹
max. RCF 24,400

with bio-containment⁵⁾

Cat. No. HTR1605

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)
 carrier Cat. No. HTC1710							
Cat. No.	4626						
boring Ø x L in mm	-						
plates per rotor	12	10	8	2		4	
max. RCF ²⁾ 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 ¹⁾	+12						

D x W x H in mm	82 x 124 x 20	-
Cat. No.	PCR plate, 96 wells	PCR strips
 carrier Cat. No. HTC1710		
Cat. No.	4626 + 1469	
boring Ø x L in mm	-	
plates/strips per rotor	2	24 x 8
max. RCF ²⁾ 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 ¹⁾	+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
 rotor Cat. No. HTR1605						
Cat. No.	2024	2023	2031 ⁷⁾	-		
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 ²⁾	24,400					
radius in mm	97					
run-up in sec	73					
run-down in sec	⊖ 77 ⊕ 240					
temperature in °C ¹⁾	+7					

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 ²⁾ is 4,000.

Angle rotor, 6-place



45°

n = 11,500 min⁻¹
max. RCF 18,038

with bio-containment⁵⁾

Cat. No. HTR1606

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
Cat. No.	2078	0536	0518²⁾	0519²⁾	0521²⁾	0548	0549	blood/urine tubes				0509	0513
lid with bio-containment ⁵⁾ incl.													
rotor Cat. No. HTR1606													
Cat. No.	1449	1451	1447	1463	1463	-		1451				1466	1454
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 ²⁾	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 ¹⁾	+ 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
Cat. No.	-	0545	0546	0547	0538³⁾
lid with bio-containment ⁵⁾ incl.					
rotor Cat. No. HTR1606					
Cat. No.	1448	1447	1446	-	
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 ²⁾	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 ¹⁾	+ 4				

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

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

⁸⁾ 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⁻¹ with bio-containment⁵⁾
max. RCF 11,228/14,025

Cat. No. HTR1607

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



↻ 90°

n = 2,000 min⁻¹
max. RCF 984
illustrated with carriers 4275

Cat. No. (without carriers) HTR1608

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
Cat. No.	0518²⁾	0519²⁾	0549	-	0545	0546	0547	0538⁵⁾	5127
lid with bio-containment ⁵⁾ incl.									
rotor Cat. No. HTR1607									
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
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 classic/cooled	☐ 105/120 ○ 1,110/1,103								
temperature in °C ¹⁾	+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
Cat. No.	- ²⁾	0528²⁾	- ²⁾	0531²⁾
carrier Cat. No. 4275				
rotor Cat. No. HTR1608				
Cat. No.	4278	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	☐ 20 ○ 195			
temperature in °C ¹⁾	-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 ²⁾ 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⁻¹
max. RCF 805

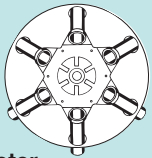



Cat. No. HTR1609




↘ 90°



n = 2,000 min⁻¹
max. RCF 917

Cat. No. HTR1610

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. HTR1609		
		
Cat. No.	4317	-
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 ¹⁾	-14	



capacity in ml	30
Ø x L in mm	24 x 151
Cat. No.	0529⁶⁾
 rotor Cat. No. HTR1610	
	
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	☐ 21 ☐ 286
temperature in °C ¹⁾	-11

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

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

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

ROTANTA

TECHNOLOGY	HT1408 (S)		HT1409(S) ^{*)}	
	classic		cooled	
Benchtop centrifuge, without rotor				
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	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 ⁻¹			
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	
Cat. No.	5600 / 5601	5600-01 / 5601-01	5605 / 5606	5605-01 / 5606-01

^{*)} 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.