

ROTIXA 500 RS

Floorstanding centrifuge

Effective: for rapid processing of large numbers of samples



ROTIXA 500 RS



View into the centrifuging chamber
showing rotor 4294 with carriers 4295-A

QUALITY YOU CAN RELY ON – FOR MANY YEARS OF INTENSIVE SERVICE

Its sturdy components make the ROTIXA 500RS a highly reliable instrument which will provide years of service. Its high capacity and a maximum RCF of 5,252 make it suitable for a wide range of centrifuging applications. This extremely effective centrifuge can handle up to 192 blood collection tubes per run, making it the ideal solution when large sample volumes have to be centrifuged in clinical chemistry procedures.

The ROTIXA 500RS is however also invaluable in R&D and quality control departments in the life sciences industry and in other industrial fields thanks to its versatility. It has proven itself in the search for active ingredients, as well as in the separation of food samples and cell suspensions, precipitates from chemical reactions, soil samples and of course also blood and its constituents.

COMPREHENSIVE RANGE OF ACCESSORIES

A further advantage of this centrifuge is its wide range of accessories: rotors, carriers and adapters for widely differing applications. These include the adaptation of racks of different blood analysers, such as those from Olympus or Hitachi.



ROTIXA 500 RS
Floorstanding centrifuge

Cat. No. 4950



ROTIXA 500 RS



HIGH CAPACITY

This floorstanding refrigerated centrifuge is particularly impressive for its high sample capacity, accommodating 4 x 1,000 ml bottles in a swing-out rotor. The ROTIXA 500RS centrifuge can hold not only all known blood collection systems, but also conical tubes with a screw cap, microtitre plates, blood bags or centrifuge bottles up to a capacity of 1,000 ml.

DEPENDABLE COOLING

The ROTIXA 500RS keeps the samples reliably and constantly at the specified temperature. Temperature in the ROTIXA 500 RS is controllable within a range of $-20\text{ }^{\circ}\text{C}$ to $+40\text{ }^{\circ}\text{C}$.

MAXIMUM SAFETY

The ROTIXA 500RS enables you to work safely. A key-operated switch prevents unauthorized changes to settings. The sturdy metal construction and sound design ensure mechanical safety.

MODEL VARIANTS

The ROTIXA 500 RS is also available

- in a heating/cooling version up to $+60\text{ }^{\circ}\text{C}$ (Cat. No. 4950-50)
- with internal cooling unit with water-cooled condenser (Cat. No. 4950-80)



AT A GLANCE



FIELDS OF APPLICATION

Research

- R&D and quality control departments in the life sciences industry, high-throughput screening

Medical diagnostics

- Centrifuging of blood and urine samples

Transfusion medicine

- Allogenic and autologous blood donation
- Stem cell collection

EASY TO USE

- Large and easy-to-read display
- Easy entry of parameters using rotary knob and selection keys
- Visual indicator that the rotor has come to a stop at the end of centrifuging

SAFETY

- Lid locking and latching
- Lid dropping protection
- Automatic rotor recognition
- Imbalance switch-off

DESIGN

- Strong metal housing
- Centrifuging chamber of stainless steel
- Viewing port in the lid

MAX. RCF

- 5,252

MAX. CAPACITY

- 4 x 1,000 ml
- 192 blood collection tubes
- 20 HITACHI racks

OUR SERVICE

You will find information on Hettich partners in your country at www.hettichlab.com

ROTIXA 500 RS



Operator panel of the ROTIXA 500RS

The centrifuge is extremely easy to operate thanks to a rotary knob and selection keys that enable parameters to be readily entered and various centrifuging programs to be combined. The operating and display elements of the ROTIXA 500 RS have been ergonomically designed, and the large display is easy to read. The actual state of all parameters is displayed while the centrifuge is running. A key-operated switch prevents unauthorized changes to settings.

OPTIONS FOR EXPANDED USE OF THE ROTIXA 500 RS:

DOCUMENTATION OF DATA

Up to 29 centrifuges can be controlled from a single PC using the HettInfo data logging system. A waveguide cable connects the centrifuge to a BUS system. Selected centrifuge data and barcode reader data can be logged by a PC with RS-232 interface.

VISUAL INDICATOR OF ROTOR STANDSTILL

additionally indicates the end of the centrifuging run.

PROGRAM INTERLOCKING




enables different centrifuging runs to be combined.

INDEPENDENT SECOND TACHO SYSTEM

for calibration of the speed measurement system for quality assurance purposes.

EASY TO USE THANKS TO THE S CONTROL PANEL

KEYBOARD

STO	saves the program.
RCL	calls up the selected program.
PROG	selects the program menu.
	for entry of the temperature from -20 °C to +40 °C in 1 °C increments. Entry of the centrifuging radius in mm.
	for entry of the acceleration ramp in stages 1-9 or in min : s.
	for entry of the braking ramp in stages R 1-9 or B 1-9 or in min : s, alternatively unbraked run-down or a brake force cut-off speed can be set.
RCF	switches from RPM to RCF mode. Entry of the RCF in increments of 1.
JRCF	The Relative Centrifugal Force integral is the accumulated relative centrifugal acceleration acting on the samples being centrifuged over time.
n	for entry of the speed in increments of 10.
t	for entry of the centrifuging time (max. 999 min : 59 s) or continuous operation.
START	starts centrifugation.
STOP	stops centrifugation manually.

DISPLAY

PROG-Nr	Display of the program number. A total of 89 programs can be stored.
T/°C	Display of the temperature.
PROFIL	Display of the acceleration and run-down profiles.
n/min ⁻¹	Display of the speed.
t/min:sec	Display of the duration of centrifuging (max. 999 min : 59 s).

ACCESSORIES



Swing-out rotor, 4-place



illustrated with carriers 4295-A
and lids 4229-B

±90°
n = 4,500 min⁻¹
max. RCF 5,252

Cat. No. 4294 (without carriers)

capacity in ml	0.8	1.5	2.0	4	5	6	7	9	12	15	25	50	94	100
∅ x L in mm	8x45	11x38		10x88	12x75	12x82	12x100	14x100	16x101	17x100	24x100	34x100	38x102	40x115
Cat. No.	-	2078	0536	-	0553²⁾	0501²⁾	0578²⁾	0500²⁾	-	0518²⁾	0519²⁾	0521²⁾	0549	0523²⁾
lid Cat. No. 4229-B														
carrier Cat. No. 4295-A														
Cat. No.	4226	4225		4224	4213-93	4213		4223		4214	4215	4216	4218	
boring ∅ x L in mm	8.2x36	11.2x46		11x74	12.5x36	12.5x74		16x74		17.5x74	26x74	35x74	41.5x74	
tubes per rotor	312	336		252	192	192		100		120	44	24	16	
max. RCF ²⁾ upper/lower	4,777	3,690/4,867		4,777										
radius in mm upper/lower	211	163/215		211										
run-up in sec	115													
run-down in sec, braked	116													
temperature in °C ¹⁾	+6													

capacity in ml	2.6–3.4	2.7–3	4–5.5	4.5–5	7.5–8.5	9–10	10	1.6–5	4–7	4–7	8	8.5–10	15	50	12	
∅ x L in mm	13x65	11x66	15x75	11x92	15x92	16x92	15x102	13x75	13x100	16x75	16x125	16x100	17x120	29x115	17x100	
Cat. No.	blood collection/urine tubes												0509	0513	-	
lid Cat. No. 4229-B																
carrier Cat. No. 4295-A																
Cat. No.	4222-93	4213-93	4214-93	4213	4214	4220	4214	4222-93	4222	4214-93	4223	4214	4232	4245-A	4220	
boring ∅ x L in mm	13.2x36	12.5x36	17.5x36	12.5x74	17.5x74	17.5x74	17.5x74	13.2x36	13.2x74	17.5x36	16x74	17.5x74	17x70	30x70	17.5x74	
tubes per rotor	120	192	120	192	120	64	120	120	120	120	100	120	92	32	64	
max. RCF ²⁾	4,777												4,958		4,777	
radius in mm	211												219		211	
run-up in sec	115															
run-down in sec, braked	116															
temperature in °C ¹⁾	+6															

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

²⁾ Please note that the RCF values indicated refer only to rotor performance. The max. permissible RCF of tubes used should be verified with the individual manufacturers. The max. RCF for glass tubes annotated with footnote²⁾ is 4,000.

³⁾ When using these tubes, carrier 4295-A cannot be closed with lid 4229-B.

ACCESSORIES



illustrated with
carriers 4295-A

Swing-out rotor, 4-place, Cat. No. 4294 (without carriers)

capacity in ml	25	30	50	85	94	250	290	600	650	750	750	250	500
Ø x L in mm	25x90	25x110	29x115	38x106	38x102	61x122	62x137	93x134	97x139	97x152	96x135	60x162	96x147
Cat. No.	-	-	-	0547	0538 ⁵⁾	5127 ⁷⁾	-	0551 ⁷⁾	0554 ⁷⁾	0512 ⁷⁾	4234-A	Corning	Corning
lid Cat. No. 4229-B													
carrier Cat. No. 4295-A													
Cat. No.	4241	4215	4249	4218		4238		4233	4258			6322	4258
boring Ø x L in mm	26x73	26x74	30x96	41.5x74		62x90		94x105	97.5x105			61x125	97.5x105
tubes per rotor	32	44	24	16		4		4	4			4	4
max. RCF ²⁾	4,777		4,867	4,777				4,958				4,777	4,958
radius in mm	211		215	211				219				211	219
run-up in sec	115												
run-down in sec, braked	116												
temperature in °C ¹⁾	+6												

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

²⁾ Please note that the RCF values indicated refer only to rotor performance. The max. permissible RCF of tubes used should be verified with the individual manufacturers. The max. RCF for glass tubes annotated with footnote²⁾ is 4,000.

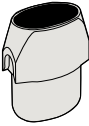

³⁾ When using these tubes, carrier 4295-A cannot be closed with lid 4229-B.



ACCESSORIES



illustrated with carriers 4298-A
and inserts 4237-A

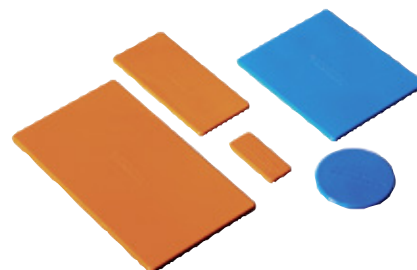
Swing-out rotor, 4-place, Cat. No. 4294 (without carriers)

capacity in ml	450	500
blood bags, triplicate		
Cat. No.	-	-
		
carrier Cat. No. 4293		
Cat. No.	4244-A	
boring Ø x L in mm	-	
blood bag systems per rotor	4	
max. RCF	5,252	
radius in mm	232	
run-up in sec	115	
run-down in sec, braked	116	
temperature in °C ¹⁾	+2	

capacity in ml	450	500	750	1,000
blood bags	quadruplicate		single	single
Cat. No.	-			-
				
carrier Cat. No. 4298-A				
Cat. No.	4237-A			-
boring Ø x L in mm	-			-
blood bag systems per rotor	4			4
max. RCF	5,003			5,071
radius in mm	221			224
run-up in sec	115			
run-down in sec, braked	116			
temperature in °C ¹⁾	+3			



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



If blood bag carriers are not filled to the same weight, then balancing weights can be used to make up the difference.

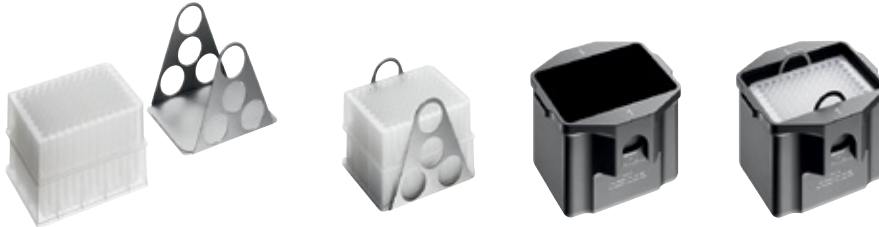
HettLiner, Cat. No. 4564

Set of balancing weights, Cat. No. 4566

⁵⁾ The screw cap for tube No. 0538 is available with Cat. No. 0539. Dimensions with cap 38 x 110 mm.

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

ACCESSORIES



Carrier 4280,
illustrated with Deep Well Plates
and removal aid 4279

Swing-out rotor, 4-place, Cat. No. 4294

D x W x H in mm	86x128x15	86x128x17.5	86x128x22	86x128x44.5	86x128x46	86x128x83	82x124x20	-
Cat. No.	MTP		CP	DWP	MS	QP	PCR plate, 96 wells	PCR strips
lid with bio-containment ⁴⁾ Cat. No. 5629								
carrier Cat. No. 4280								
Cat. No.	4279						1485	
boring Ø x L in mm	-							
plates / strips per rotor	24		20	8	4	4	4	48x8
max. RCF ²⁾	4,573							
radius in mm	202							
run-up in sec	115							
run-down in sec, braked	116							
temperature in °C ¹⁾	+5							

D x W x H in mm	86x128x15	86x128x17.5	86x128x22	86x128x44.5	86x128x46	18x164x46	82x124x20	-
Cat. No.	MTP		CP	DWP	MS	LKB racks	PCR plate, 96 wells	PCR strips
carrier Cat. No. 4299-N								
Cat. No.	4236					-	4236 + 1485	
boring Ø x L in mm	-							
plates / racks per rotor	16		8	4		16	4	48x8
max. RCF ²⁾	3,939					4,120	3,939	
radius in mm	174					182	174	
run-up in sec	115							
run-down in sec, braked	116							
temperature in °C ¹⁾	+4							

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

²⁾ Please note that the RCF values indicated refer only to rotor performance. The max. permissible RCF of tubes used should be verified with the individual manufacturers. The max. RCF for glass tubes annotated with footnote²⁾ is 4,000.

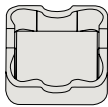


³⁾ When using these tubes, bucket 4255 cannot be closed with its lid.


















ACCESSORIES

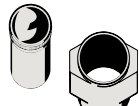




























Carrier 4254,
illustrated with
bucket 4255 with lid

Swing-out rotor, 4-place, Cat. No. 4294

D x W x H in mm	20x118x70
Hitachi Racks	
Cat. No.	-
	
carrier Cat. No. 4257	
Cat. No.	4259-A⁶⁾
boring Ø x L in mm	-
racks per rotor	20
max. RCF ²⁾	4,867
radius in mm	215
run-up in sec	115
run-down in sec, braked	116
temperature in °C ¹⁾	+7

capacity in ml	5	7	9	10	15	25	50	100
Ø x L in mm	12x75	12x100	14x100	17x70	17x100	24x100	34x100	44x100
Cat. No.	0553²⁾	0578²⁾	0500²⁾	2079	0518²⁾	0519²⁾	0521²⁾	0526²⁾
bucket Cat. No. 4255								
								
carrier Cat. No. 4254	4433	4434	4433	4434	4438	4439	4442	4442
boring Ø x L in mm	13x58	17.5x53	17.5x53	17.5x53	26x72	36x79	45x78	45x78
tubes per rotor	120	76	76	76	28	16	8	8
max. RCF ²⁾	4,618	4,777	4,777	4,777	4,505	4,573	4,551	4,551
radius in mm	204	211	211	211	199	202	201	201
run-up in sec	115	115	115	115	115	115	115	115
run-down in sec, braked	116	116	116	116	116	116	116	116
temperature in °C ¹⁾	+5	+5	+5	+5	+5	+5	+5	+5

capacity in ml	2.6–3.4	2.7–3	4–5.5	4.5–5	4.9	7.5–8.5	9–10	10	1.6–5	4–7	4–7	8	8.5–10
Ø x L in mm	13x65	11x66	15x75	11x92	13x90	15x92	16x92	15x102	13x75	13x100	16x75	16x125	16x100
Cat. No.	blood collection/urine tubes												
													
bucket Cat. No. 4255													
carrier Cat. No. 4254	4435	4433	4434	4433	4435	4434	4433	4434	4435	4434	4433	4434	4435
boring Ø x L in mm	13.5x58	13x58	17.5x53	13x58	13.5x58	17.5x53	17.5x53	17.5x53	13.5x58	13x100	16x75	16x125	16x100
tubes per rotor	84	120	76	120	84	76	76	76	84	76	76	76	76
max. RCF ²⁾	4,618	4,618	4,777	4,618	4,618	4,777	4,777	4,777	4,618	4,618	4,777	4,777	4,777
radius in mm	204	204	211	204	204	211	211	211	204	204	211	211	211
run-up in sec	115	115	115	115	115	115	115	115	115	115	115	115	115
run-down in sec, braked	116	116	116	116	116	116	116	116	116	116	116	116	116
temperature in °C ¹⁾	+5	+5	+5	+5	+5	+5	+5	+5	+5	+5	+5	+5	+5



















⁴⁾ Tested by the TÜV in conformity with DIN EN 61010, section 2 - 020.





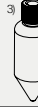






⁶⁾ When using removal frame 4259-A, please take the insert out of carrier 4257.

ACCESSORIES



Swing-out rotor, 4-place, Cat. No. 4294

capacity in ml	15	30	50	25	30	10	250	290	650	750	1.000	1.000
Ø x L in mm	17x120	25x110	29x115	25x90	25x110	16x80	61x122	62x137	97x139	97x152	96x176	98x138
Cat. No.	0509	-	0513	-	-	-	5127⁷⁾	- ⁷⁾	0554⁷⁾	0512⁷⁾	4239⁷⁾	4255
bucket Cat. No. 4255												
carrier Cat. No. 4254												
Cat. No.	4437	4438	4441	4438		4434	4443					
boring Ø x L in mm	17x88	26x72	30x87	26x72		17.5x53	62x92		98x138			-
tubes per rotor	48	28	20	28		76	4		4			
max. RCF ²⁾	4,890	4,709	4,890	4,709		4,777	5,003		5,184			
radius in mm	216	208	216	208		211	221		229			
run-up in sec	115											
run-down in sec, braked	116											
temperature in °C ¹⁾	+5											

capacity in ml	175	175	200	225	250	500
Ø x L in mm	61x118	62x144	60x130	61x137	60x162	96x147
Cat. No.	Falcon®	Nalgene®	Nunc®	Falcon®	Corning	
bucket Cat. No. 4255						
carrier Cat. No. 4254						
Cat. No.	4440	4430		4440	4430	4449
boring Ø x L in mm	-					
tubes per rotor	4					
max. RCF ²⁾	5,184					
radius in mm	229					
run-up in sec	115					
run-down in sec, braked	116					
temperature in °C ¹⁾	+5					

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

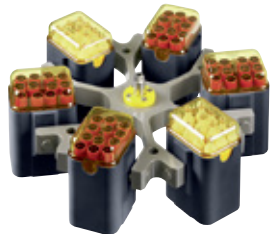
²⁾ Please note that the RCF values indicated refer only to rotor performance. The max. permissible RCF of tubes used should be verified with the individual manufacturers. The max. RCF for glass tubes annotated with footnote²⁾ is 4,000.

³⁾ When using these tubes, bucket 4255 cannot be closed with its lid, carrier 5051 cannot be closed with lid 5053.

ACCESSORIES



Swing-out rotor, 6-place



illustrated with carriers 5051
and lids 5053

±90°
n = 4,000 min⁻¹
max. RCF 3,631

Cat. No. 4296 (without carriers)

capacity in ml	1.5	2.0	1.5	2.0	5	6	7	9	15	25	50	100	100	two-tier frame for cyto accessories
∅ x L in mm	11 x 38		11 x 38		12 x 75	12 x 82	12 x 100	14 x 100	17 x 100	24 x 100	34 x 100	44 x 100	40 x 115	
Cat. No.	-	-	2078	0536	0553²⁾	0501²⁾	0578²⁾	0500²⁾	0518²⁾	0519²⁾	0521²⁾	0526²⁾	0523²⁾	cyto chambers⁹⁾
lid Cat. No. 5053														
carrier Cat. No. 5051														
Cat. No.	5257	5281	5227		5247⁷⁾	5264	5248⁸⁾	5242	5243	5262	5249	5280		
boring ∅ x L in mm	12.5 x 42	11.5 x 50	12.5 x 42		12.5 x 86	16 x 50	17.5 x 86	26 x 86	36 x 86	45.5 x 86	42 x 86	-		
tubes per rotor	240	96	120		120	72	72	30	12	6		12		
max. RCF ²⁾ upper/lower	2,486 / 3,363	3,363	3,309		3,291	3,309	3,291			3,291		2,290 / 3,274		
radius in mm upper/lower	139 / 188	188	185		184	185	184			184		128 / 183		
run-up in sec	33													
run-down in sec, braked	50													
temperature in °C ¹⁾	0													

capacity in ml	1.1–1.4	2.6–3.4	2.7–3	4–5.5	4.5–5	4.9	7.5–8.5	9–10	10	1.6–5	4–7	4–7	8.5–10	15	50
∅ x L in mm	8x66	13x65	11x66	15x75	11x92	13x90	15x92	16x92	15x102	13x75	13x100	16x75	16x100	17x120	29x115
Cat. No.	blood collection/urine tubes													0509	0513
lid Cat. No. 5053															
carrier Cat. No. 5051															
Cat. No.	5267	5268	5227	5264	5227	5268	5264	5258		5268	6301	5264	5248	6306	5259
boring ∅ x L in mm	11 x 44	13,5 x 52	12,5 x 42	16 x 50	12,5 x 42	13,5 x 52	16 x 50	17,6 x 86		13,5 x 52	13,5 x 86	16 x 50	17,5 x 86	17 x 90	30 x 86
tubes per rotor	120	72	120	72	120	72		66		72				42	12
max. RCF ²⁾	3,274	3,345	3,309	3,309	3,309	3,345	3,309	3,291		3,345	3,291	3,309	3,291	3,434	3,363
radius in mm	183	187	185	185	185	187	185	184		187	184	185	184	192	188
run-up in sec	33														
run-down in sec, braked	50														
temperature in °C ¹⁾	0														

¹⁾ At temperatures of over +40 °C and/or when not filled to capacity, bottles may warp during centrifugation.

⁸⁾ With Cat. No. 5247-91 or 5248-91 these adapters can also be ordered with a decanting aid.

⁹⁾ Please ask for our detailed cyto brochure.

ACCESSORIES



illustrated with carriers 5051



illustrated with carriers 5092 and lids 5093 with bio-containment⁴⁾

Swing-out rotor, 6-place, Cat. No. 4296 (without carriers)

capacity in ml	12	30	50
Ø x L in mm	17x100	25x110	29x115
Cat. No.	-		
lid Cat. No. 5053			
carrier Cat. No. 5051			
Cat. No.	6306	5266	5243
boring Ø x L in mm	17x90	26x86	36x86
tubes per rotor	42	30	12
max. RCF ²⁾	3,434	3,291	
radius in mm	192	184	
run-up in sec	33		
run-down in sec, braked	50		
temperature in °C ¹⁾	0		

capacity in ml	5	6	7	10	15	25	50	100	100
Ø x L in mm	12x75	12x82	12x100	17x70	17x100	24x100	34x100	44x100	40x115
Cat. No.	0553²⁾	0501²⁾	0578²⁾	2079	0518²⁾	0519²⁾	0521²⁾	0526²⁾	0523²⁾
lid with bio-containment⁴⁾ Cat. No. 5093									
carrier Cat. No. 5092									
Cat. No.	5128	5120	5136		5122	5124	5125	5126	
boring Ø x L in mm	12.8x45	12.8x82	17.5x60.7		25.5x82	35.5x82.5	45.5x85	42x85	
tubes per rotor	72	72	48		24	6			
max. RCF ²⁾	3,542	3,542	3,488		3,434	3,488			
radius in mm	198	198	195		192	195			
run-up in sec	33								
run-down in sec, braked	50								
temperature in °C ¹⁾	-2								

capacity in ml	250	1.1–1.4	1.1–1.4	2.6–3.4	2.7–3	2.7–3	4.5–5	4–5.5	4.9	7.5–8.5	9–10	10	1.6–5
Ø x L in mm	65x115	8x66	8x66	13x65	11x66	11x66	11x92	15x75	13x90	15x92	16x92	15x102	13x75
Cat. No.	0530²⁾	blood collection / urine tubes											
lid with bio-containment⁴⁾ Cat. No. 5093													
carrier Cat. No. 5092													
Cat. No.	1791	5137	5138	5138	5137	5138	5120	5136	5137	5136			5138
boring Ø x L in mm	66x103	13.5x60.7	12.8x54.5	12.8x54.5	13.5x60.7	12.8x54.5	12.8x82	17.5x60.7	13.5x60.7	17.5x60.7			12.8x54.5
tubes per rotor	6	48	72		48	72	72	48		48			72
max. RCF ²⁾	3,631	3,488	3,077		3,488	3,077	3,542	3,488		3,488			3,077
radius in mm	203	195	172		195	172	198	195		195			172
run-up in sec	33												
run-down in sec, braked	50												
temperature in °C ¹⁾	-2												

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











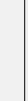













²⁾ Please note that the RCF values indicated refer only to rotor performance. The max. permissible RCF of tubes used should be verified with the individual manufacturers. The max. RCF for glass tubes annotated with footnote²⁾ is 4,000.

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

ACCESSORIES



Swing-out rotor, 6-place, Cat. No. 4296 (without carriers)

capacity in ml	4-7	4-7	8.5-10	8	15	50	25	30	50	10	250	290
Ø x L in mm	13x100	16x75	16x100	16x125	17x120	29x115	25x90	25x110	29x115	16x80	61x122	62x137
Cat. No.	blood/urine tubes				0509	0513	-				5127 ⁷⁾	- ⁷⁾
lid with bio-containment ⁴⁾ Cat. No. 5093												
carrier Cat. No. 5092												
Cat. No.	5120	5136	5121 ¹⁰⁾	5129	5123	5134	5122	5135	5136	6319		
boring Ø x L in mm	12.8x82	17.5x60.7	17.5x82	17x85	30x85	26x73	25.5x82	30x99	17.5x60.7	66x103		
tubes per rotor	72	48	42	42	12	18	24	12	48	6		
max. RCF ²⁾	3,542	3,488	3,542	3,631	3,631	3,363	3,434	3,560	3,488	3,631		
radius in mm	198	195	198	203	203	188	192	199	195	203		
run-up in sec	33											
run-down in sec, braked	50											
temperature in °C ¹⁾	-2											

⁴⁾ Tested by the TÜV in conformity with DIN EN 61010, section 2 - 020.

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

¹⁰⁾ Please remove the inserts.

ACCESSORIES

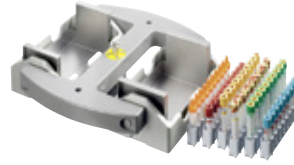


Swing-out rotor, 2-place



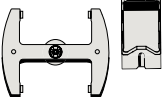

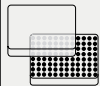
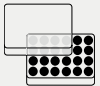





illustrated with carriers 4285-A,
adapters 4281 and Deep Well Plates

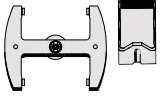

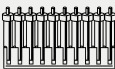

$\leq 90^\circ$
 $n = 3,600 \text{ min}^{-1}$
max. RCF 2,652



illustrated with carriers 4285-A,
adapters 4283-B and Olympus racks

Cat. No. 4282 (without carriers)

D x W x H in mm	86x128x15	86x128x17.5	86x128x22	86x128x44.5	59x84x11	82x124x20	-	20x176x41	
Cat. No.	MTP		CP	DWP	Microtest plate (Terasaki)	PCR plate, 96-place	PCR strips	Olympus racks	
carrier Cat. No. 4285-A  rotor Cat. No. 4282									
Cat. No.	4281					4281 + 2 x 1485		4283-B	
boring \varnothing x L in mm	-								
plates / racks per rotor	16	16	12	4	4	4	48x8	12	
max. RCF ²⁾	2,434					2,434		2,652	
radius in mm	168					168		183	
run-up in sec	87								
run-down in sec, braked	94								
temperature in $^\circ\text{C}$ ¹⁾	-2								

D x W x H in mm	20x118x70	25x193x60	110x210x44
Cat. No.	Hitachi racks	Behring racks	rack, 50-place
carrier Cat. No. 4285-A  rotor Cat. No. 4282			
Cat. No.	4287-B	4288-A	4263-A
boring \varnothing x L in mm	-		
plates / racks per rotor	20	10	2
max. RCF ²⁾	2,652	2,652	2,579
radius in mm	183	183	178
run-up in sec	87		
run-down in sec, braked	94		
temperature in $^\circ\text{C}$ ¹⁾	-2		

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

²⁾ Please note that the RCF values indicated refer only to rotor performance. The max. permissible RCF of tubes used should be verified with the individual manufacturers. The max. RCF for glass tubes annotated with footnote²⁾ is 4,000.

⁴⁾ Tested by the TÜV in conformity with DIN EN 61010, section 2 - 020.

ACCESSORIES



Angle rotor, 6-place



lid with bio-containment incl.⁴⁾

±25°
n = 9,500 min⁻¹
max. RCF 14,025

Cat. No. 4266

Capacity in ml	15	25	94	10	30	50	85	94	250
Ø x L in mm	17 x 100	24 x 100	38 x 102	16 x 80	26 x 95	29 x 107	38 x 106	38 x 102	61 x 122
Cat. No.	0518 ²⁾	0519 ²⁾	0549	-	0545	0546	0547	0538 ¹³⁾	5127 ¹⁴⁾
lid with bio-containment ⁴⁾ incl.									
rotor Cat. No. 4266									
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			
max. RCF ²⁾	13,319	12,915	12,310	13,420	12,915	12,108	12,310		14,025
radius in mm	132	128	122	133	128	120	122		139
run-up in sec	82								
run-down in sec, braked	96								
temperature in °C ¹⁾	+2								

¹⁾ In heating/cooling model 4950-50 rotor 4316 can only be used up to a maximum of + 40 °C.

¹³⁾ The screw cap for tube No. 0538 is available with Cat. No. 0539. Dimensions with cap 38 x 110 mm.

¹⁴⁾ At temperatures of over +40 °C and / or when not filled to capacity, bottles may warp during centrifugation.

ACCESSORIES

















Angle rotor, 14-place



lid with bio-containment incl.⁴⁾

±36°
n = 10,000 min⁻¹
max. RCF 17,441

Cat. No. 4248

Capacity in ml	15	25	7.5–8.5	9–10	10	8.5–10	15	50	30
Ø x L in mm	17x100	24x100	15x92	16x92	15x102	16x100	17x120	29x115	26x95
Cat. No.	0518²⁾	0519²⁾	blood collection/urine tubes			0509	0513	0545	
lid with bio-containment ⁴⁾ incl.									
rotor Cat. No. 4266									
Cat. No.	1473	1472	1473			1474	-	1472	
boring Ø x L in mm	17.5x91,5	26x85	17.5x91,5			17x107	30x100	26x85	
tubes per rotor	14								
max. RCF ²⁾	16,658	16,211	16,658			16,994	17,441	16,211	
radius in mm	149	145	149			152	156	145	
run-up in sec	103								
run-down in sec, braked	106								
temperature in °C ¹⁾	+6								

ACCESSORIES



Swing-out rotor, 4-place, for ASTM tubes + 50 ml babcock bottles



illustrated with carriers 4275

∠90°
n = 2,000 min⁻¹
max. RCF 984

Cat. No. 4274 (without carriers)

Angle rotor, 6-place, for Schlenk tubes



∠45°
n = 2,000 min⁻¹
max. RCF 805



Cat. No. 4316¹¹⁾

capacity in ml	50	100	100	100	50
∅ x L in mm	45 x 130	58 x 161	44 x 168	37 x 200	36.5 x 185
Cat. No.	ASTM	ASTM 0528	ASTM	ASTM 0531	Babcock
carrier Cat. No. 4275					
rotor Cat. No. 4274					
Cat. No.	4278-A	0771	4277	4276	0703
boring ∅ x L in mm	-				
tubes per rotor	4				
max. RCF	984		961		912
radius in mm	220		215		204
run-up in sec	16				
run-down in sec, braked	38				
temperature in °C ¹¹⁾	-5				

capacity in ml	25	50
Cat. No.	0532	0533
rotor Cat. No. 4316 ¹¹⁾		
Cat. No.	4317	-
boring ∅ x L in mm	25 x 86	-
tubes per rotor	6	
max. RCF	783	805
radius in mm	175	180
run-up in sec	16	
run-down in sec, braked	29	
temperature in °C ¹¹⁾	-10	

TECHNICAL DATA



TECHNOLOGY		ROTIXA 500 RS	
Floorstanding centrifuge, without rotor		cooled	
Power supply ¹⁾	230–240 V 1 ~	220 V 1 ~	
Frequency	50 Hz	60 Hz	
Consumption	3,800 VA		
Emission, Immunity	EN/IEC 61326-1, class B		
 Max. capacity	4 x 1,000 ml		
 Max. RPM (speed)	10,000 min ⁻¹		
Max. RCF	17,441		
Running time	1 sec–999 min : 59 sec, ∞ continuous run		
Dimensions (HxWxD)	973x650x815 mm		
Weight	approx. 219 kg		
Refrigeration			
Temperature control, infinitely variable	from -20 to +40 °C		
Cat. No.	4950		

¹⁾ Other voltages 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, ISO 13485 and ISO 14001 certificates accredited to the company bear witness to the extreme care and responsibility Hettich puts into the manufacturing of centrifuges and their accessories.



Our certification as an “Authorized Economic Operator” enables accelerated customs clearance.



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