



ROTIXA 50 S/50 RS
Floorstanding Centrifuges
classic/cooled



ROTIXA 50 S/50 RS

Among experts "ROTIXA" has become a household word for high sample throughput. This is why ROTIXA models are the centrifuges of choice in development and quality control laboratories of the life science industry and in medical routine laboratories.

With generating a maximum RCF of 5,252 ROTIXA centrifuges are suited for separating a wide range of sample materials such as samples of food, cell suspensions, sediments of chemical reactions, soil and, of course, blood and blood components.

In addition to all commonly used blood collection systems, the ROTIXA 50 S and 50 RS centrifuges accommodate conical tubes with screw cap, microtitre plates and centrifuge bottles up to a volume of 1,000 ml.

With the growing use of clinical chemistry analysers in mind, the ROTIXA 50 S and 50 RS centrifuges are also designed to spin racks of well-known manufacturers like Olympus, Hitachi or Behring.

It goes without saying that they also accept the time-tested round-bottom tubes up to a volume of 250 ml.

PERFORMANCE

- 4,500 min⁻¹ in a swing-out rotor, RCF 5,252
- max. 4 x 1,000 ml
- extremely short run-up and run-down times

TECHNOLOGY

- easily exchangeable rotors
- smooth and quiet running
- exceptional speed stability
- frequency-controlled drive, maintenance only required according to BGR 261/500 regulations
- see-through glass in the lid for additional speed control

REFRIGERATION

- temperature in the ROTIXA 50 RS is controllable within a range of -20 °C to +40 °C



ROTIXA 50 S classic

Cat. No. 4905

SAFETY

- Stainless steel centrifuging chamber
- Panelling with scratch and impact resistant coating
- Automatic lid locking and holding
- Lid dropping protection
- Emergency lid lock release
- Automatic rotor recognition
- Imbalance switch-off
- Key-operated switch for locking and protecting programs
- Motor overheating protection
- Chamber overheating protection in the ROTIXA 50 RS
- Conformity with the latest national and international safety standards such as IEC 1010-2-2, EN 61010-1 and all relevant EC regulations
- CE marked

MODEL VARIANTS

The ROTIXA 50 RS is also available

- with connection for nitrogen flushing (Cat. No. 4910-20)
- as heating/cooling variant up to +60 °C (Cat. No. 4910-50)
- with connection to external cooling units (Cat. No. 4910-90)
- with internal cooling unit with water-cooled condenser (Cat. No. 4910-96)

Having to cope with high sample throughput? No problem!

With a capacity of e.g.

- 192 blood collection tubes or
- 32 x 50 ml conical tubes with screw cap
- 16 standard size microtitre plates
- 20 HITACHI racks
- 4 x 1,000 ml bottles
- 4 blood bags

in swing-out rotor 4294



ROTIXA 50 RS cooled

Cat. No. 4910

ROTIXA 50 S/50 RS ...programming with effortless ease

**Numerous functions with
just a few user operations**

Whether entering single parameters or chaining complete running programs, the clearly arranged display with its selector keys and adjusting knob provides for extreme user-friendliness. The controls and displays of the ROTIXA 50 S/50 RS centrifuges are arranged according to ergonomical aspects. The large display is clearly arranged and well readable. During centrifugation the actual values of all parameters are indicated.

For special routine or scientific applications the ROTIXA 50 S/50 RS centrifuges can be fitted with the following optional equipment:

Centrifuging data report

With the data documentation system HettInfo up to 29 centrifuges can be controlled by a single PC. An optical cable connects the centrifuge to a BUS system. Protocols of selected centrifuging data and barcode readers can be produced via a PC with an RS 232 interface.

Visual indication when the rotor is stationary

for additional information on the completion of a centrifuging cycle.

Chaining of programs

allows to program the centrifuge to run different programs in succession.

Second independent tacho system

for calibrating the speed measuring instrument as required by quality management systems.






ROTIXA control panel: Entry of the parameters is exact, fast and easy with selector keys on the water-protected foil keypad and an adjusting knob.

DISPLAY

- PROG-Nr** Program number.
89 programmable memories are available.
- T/°C** Temperature of the refrigerated ROTIXA 50 RS.
- 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 ROTIXA 50 RS.
-  Entry of the centrifuging radius in mm.
-  Entry of the run-up time in ramps 1-9 or in min:sec.
-  Entry of the run-down time in ramps R 1-9 and B 1-9 or in min:sec. Also 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.
- 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) or continuous operation.
- START** Starts centrifugation.
- STOP** Stops centrifugation manually.

ROTORS AND ACCESSORIES

Swing-out rotor, 4-place

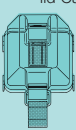



























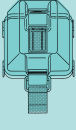


























±90°

n = 4,500 min⁻¹
max. RCF 5,252

illustrated with carriers 4295-A
and lids 4229-B

Cat. No. (without carriers) **4294**

capacity in ml	0.8	1.5	2.0	4	5	6	7	9	12	15	25	50	85	100
Ø x L in mm	8x45	11x38		10x88	12x75	12x82	12x100	14x100	16x101	17x100	24x100	34x100	38x101	40x115
Cat. No.	-	2078	0536	-	0553²⁾	0501²⁾	0578²⁾	0500²⁾	-	0518²⁾	0519²⁾	0521²⁾	0549	0523²⁾
lid Cat. No. 4229-B 														
														
Cat. No.	4226	4225	4224	4213-93	4213	4223	4214	4215	4216	4218				
boring Ø 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	112													
run-down in sec, braked	105													
temperature in °C ¹⁾	+7													

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
Ø 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 															
															
Cat. No.	4222-93	4213-93	4214-93	4213	4214	4220	4214	4222-93	4222	4214-93	4223	4214	4232	4245-A	4220
boring Ø 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	112														
run-down in sec, braked	105														
temperature in °C ¹⁾	+7														

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

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

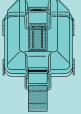

























³⁾ When using these tubes, carrier 4295-A cannot be closed with lid 4229-B.

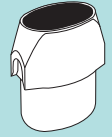

ROTORS AND ACCESSORIES

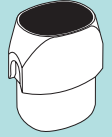



illustrated with carriers 4293

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

capacity in ml	25	30	50	85	94	250	290	600	750	750	250	500
Ø x L in mm	25x90	25x110	29x115	38x106	38x102	61x122	62x137	93x134	97x152	93x137	60x162	96x147
Cat. No.	-	-	-	0547	0538 ⁴⁾	5127 ⁵⁾	-	0551 ⁵⁾	0512 ⁵⁾	4234	Corning	Corning
lid Cat. No. 4229-B  carrier Cat. No. 4295-A 												
												
Cat. No.	4241	4215	4249	4218		4238		4233	4258	4233	6322	4258
boring Ø x L in mm	26x73	26x74	30x96	41.5x74		62x90		94x105	97.5x105	94x105	61x125	97.5x105
tubes per rotor	32	44	24	16		4		4	4	4	4	4
max. RCF ²⁾	4,777	4,777	4,867	4,777				4,958	4,958	4,958	4,777	4,958
radius in mm	211	211	215	211				219	219	219	211	219
run-up in sec	112											
run-down in sec, braked	105											
temperature in °C ¹⁾	+7											

capacity in ml	450	500
blood bags, triplicate ¹²⁾		
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	108	
run-down in sec, braked	103	
temperature in °C ¹⁾	+6	

capacity in ml	450	500	750	1,000
blood bags ¹²⁾	quadruplicate		single	single
Cat. No.	-		-	-
 carrier Cat. No. 4298				
Cat. No.	4237-A		-	-
boring Ø x L in mm	-		-	-
blood bag systems per rotor	4		4	4
max. RCF	5,003		5,071	5,071
radius in mm	221		224	224
run-up in sec	108			
run-down in sec, braked	103			
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 footnote ²⁾ is 4,000.

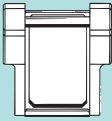






³⁾ When using these tubes, carrier 4295-A cannot be closed with lid 4229-B.

ROTORS AND ACCESSORIES












illustrated with carriers 4298

Swing-out rotor 4294

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	82 x 124 x 20	-
Cat. No.	MTP		CP	DWP	PCR plate, 96 wells	PCR strips
 carrier Cat. No. 4292						
Cat. No.	-				1485	
boring Ø x L in mm	-					
plates/strips per rotor	12	8	8	4	4	48 x 8
max. RCF ²⁾	4,007					
radius in mm	177					
run-up in sec	108					
run-down in sec, braked	103					
temperature in °C ¹⁾	+ 4					

CP = Culture Plate
DWP = Deep Well Plate
MS = Micronic System
MTP = Microtitre Plate

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	18 x 46 x 164	82 x 124 x 20	-
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	48 x 8
max. RCF ²⁾	3,939					4,120	3,939	
radius in mm	174					182	174	
run-up in sec	108							
run-down in sec, braked	103							
temperature in °C ¹⁾	+ 4							

⁴⁾ The screw cap for tube No. 0538 is available with Cat. No. 0539. Dimensions with cap 38 x 106 mm.

⁵⁾ At temperatures of over + 40 °C and / or when not filled to capacity, bottles may warp during centrifugation.

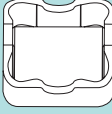
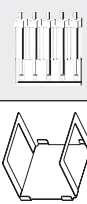
¹²⁾ We recommend the use of the refrigerated ROTIXA 50 RS to ensure that the temperature of the blood is maintained during centrifugation.















ROTORS AND ACCESSORIES

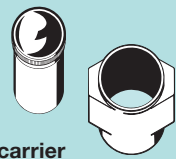









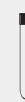

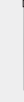
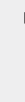















Carrier 4254, illustrated with bucket 4255 with lid

Swing-out rotor 4294

D x W x H in mm	20 x 70 x 118
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⁾	4,868
radius in mm	215
run-up in sec	108
run-down in sec, braked	103
temperature in °C ¹⁾	+6




















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								
Cat. No.	4433		4434		4438	4439	4442	
boring Ø x L in mm	13x58		17.5x53		26x72	36x79	45x78	
tubes per rotor	120		76		28	16	8	
max. RCF ²⁾	4,618		4,777		4,505	4,573	4,551	
radius in mm	204		211		199	202	201	
run-up in sec	108							
run-down in sec, braked	103							
temperature in °C ¹⁾	+6							












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													
Cat. No.	4435	4433	4434	4433	4435	4433	4434	4434	4435	4435	4434	4434	4434
boring Ø x L in mm	13.5x58	13x58	17.5x53	13x58	13.5x58	13x58	17.5x53	17.5x53	13.5x58	13x58	16x75	17.5x53	17.5x53
tubes per rotor	84	120	76	120	84	120	76	76	84	84	16	76	76
max. RCF ²⁾	4,618		4,777	4,618		4,777		4,618		4,777		4,777	
radius in mm	204		211	204		211		204		211		211	
run-up in sec	108												
run-down in sec, braked	103												
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 footnote ²⁾ is 4,000.
³⁾ When using these tubes, bucket 4255 cannot be closed with its lid.

ROTORS AND ACCESSORIES

Swing-out rotor 4294

capacity in ml	15	30	50	25	30	10	250	290	600	750	1,000	1,000
Ø x L in mm	17 x 120	25 x 110	29 x 115	25 x 90	25 x 110	16 x 80	61 x 122	62 x 137	93 x 134	97 x 152	96 x 176	98 x 138
Cat. No.	0509	-	0513	-	-	-	5127⁵⁾	- ⁵⁾	0551⁵⁾	0512⁵⁾	4239⁵⁾	4255
bucket Cat. No. 4255												
carrier Cat. No. 4254												
Cat. No.	4437	4438	4441	4438	4434	4443	4466	-	-			
boring Ø x L in mm	17 x 88	26 x 72	30 x 87	26 x 72	17.5 x 53	62 x 92	94 x 90	98 x 138	-			
tubes per rotor	48	28	20	28	76	4	4	4				
max. RCF ²⁾	4,890	4,709	4,890	4,709	4,777	5,003	5,184	5,184				
radius in mm	216	208	216	208	211	221	229	229				
run-up in sec	108											
run-down in sec, braked	103											
temperature in °C ¹⁾	+6											

capacity in ml	175	175	200	225	250	500
Ø x L in mm	61 x 118	62 x 144	60 x 130	61 x 137	60 x 162	96 x 147
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	108					
run-down in sec, braked	103					
temperature in °C ¹⁾	+6					

⁵⁾ At temperatures of over + 40 °C and / or when not filled to capacity, bottles may warp during centrifugation.

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

ROTORS AND ACCESSORIES

Swing-out rotor, 6-place

±90°

n = 4,000 min⁻¹
max. RCF 3,631



illustrated with carriers 5051
and lids 5053

Cat. No. (without carriers) **4296**

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
Ø 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 chambers⁷⁾
lid Cat. No. 5053														
carrier Cat. No. 5051														
Cat. No.	5257	5281	5227		5247³⁾	5264	5248³⁾	5242	5243	5262	5249	5280		
boring Ø 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	38													
temperature in °C ¹⁾	-4													

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
Ø x L in mm	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	13 x 75	13 x 100	16 x 75	16 x 100	17 x 120	29 x 115
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	5268	5264	5248	6306	5259	
boring Ø x L in mm	11 x 44	13.5 x 52	12.5 x 42	16 x 50	12.5 x 42	13.5 x 52	16 x 50	17.6 x 86	13.5 x 52	13.5 x 52	16 x 50	17.5 x 86	17 x 90	30 x 86	
tubes per rotor	120	72	120	72	120	72	66	72		72		42	12		
max. RCF ²⁾	3,274	3,345	3,309	3,309	3,309	3,345	3,309	3,291	3,345	3,345	3,309	3,291	3,434	3,363	
radius in mm	183	187	185	185	185	187	185	184	187	187	185	184	192	188	
run-up in sec	33														
run-down in sec, braked	38														
temperature in °C ¹⁾	-4														

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

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

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

⁷⁾ Please ask for our detailed cyto brochure.

ROTORS AND ACCESSORIES



illustrated with carriers 5051



illustrated with carriers 5092 and lids 5093 with bio-containment⁹⁾

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

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	38		
temperature in °C ¹⁾	-4		

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-containment ⁹⁾ Cat. No. 5093									
carrier Cat. No. 5092									
Cat. No.	5128	5120	5136	5122	5124	5125	5126	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			33					
run-down in sec, braked	38			38					
temperature in °C ¹⁾	-6			-6					

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	4-7	4-7
Ø x L in mm	65 x 115	8x66	6x88	13x65	11x66	11x66	11x92	15x75	13x90	15x92	16x92	15x102	13x75	13x100	16x75
Cat. No.	0530²⁾	blood collection/urine tubes													
lid with bio-containment ⁹⁾ Cat. No. 5093															
carrier Cat. No. 5092															
Cat. No.	1791	5137	5138	5138	5137	5138	5120	5136	5137	5136	5136	5138	5120	5136	
boring Ø x L in mm	66 x 103	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	17.5x60.7	12.8x54.5	12.8x82	17.5x60.7	
tubes per rotor	6	48	72		48	72	72	48	48	48	48	72	72	48	
max. RCF ²⁾	3,631	3,488	3,077		3,488	3,077	3,542	3,488	3,488	3,488	3,488	3,077	3,542	3,488	
radius in mm	203	195	172		195	172	198	195	195	195	195	172	198	195	
run-up in sec	33														
run-down in sec, braked	38														
temperature in °C ¹⁾	-6														

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

⁹⁾ Tested by the TÜV in conformity with DIN EN 61010, section 2-020.

ROTORS AND ACCESSORIES

Swing-out rotor, 2-place



±90°

n = 3,600 min⁻¹
max. RCF 2,652

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

Swing-out rotor 4296

Cat. No. (without carriers) **4282**

capacity in ml	8.5–10	8	15	50	25	30	50	10	250	290
Ø x L in mm	16x100	16x125	17x120	29x115	25x90	25x110	29x115	16x80	61x122	62x137
Cat. No.	blood/urine tubes		0509	0513	-				5127 ⁵⁾	- ⁵⁾
lid with bio-containment ⁹⁾ Cat. No. 5093										
carrier Cat. No. 5092										
Cat. No.	5136	5121 ¹⁰⁾	5129	5123	5134	5122	5135	5136	6319	
boring Ø x L in mm	17.5x60.7	17.5x82	17x85	30x85	26x73	25.5x82	30x99	17.5x60.7	66x103	
tubes per rotor	48	42	42	12	18	24	12	48	6	
max. RCF ²⁾	3,488	3,542	3,631	3,631	3,363	3,434	3,560	3,488	3,631	
radius in mm	195	198	203	203	188	192	199	195	203	
run-up in sec	33									
run-down in sec, braked	38									
temperature in °C ¹⁾	-6									

CP = Culture Plate
DWP = Deep Well Plate
MS = Micronic System
MTP = Microtitre Plate

D x W x H in mm	86x128x15	86x128x17.5	86x128x22	86x128x44.5	59x84x11	82x124x20	-	20x41x176
Cat. No.	MTP		CP	DWP	Microtestplatte (Terasaki)	PCR-Platte, 96-fach	PCR- Strips	Olympus- Racks
carrier Cat. No. 4285-A								
rotor Cat. No. 4282								
Cat. No.	4281					4281 + 1485		4283-B
boring Ø x L in mm	-							
plates/racks per rotor	16	16	12	4	4	4	48 x 8	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	87							
temperature in °C ¹⁾	-8							

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 ASTM tubes annotated with footnote 2) is 700.

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

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

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

10) Please remove the inserts.

ROTORS AND ACCESSORIES

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) **4274**

Angle rotor, 6-place, for Schlenk tubes

±45°

n = 2,000 min⁻¹
max. RCF 805

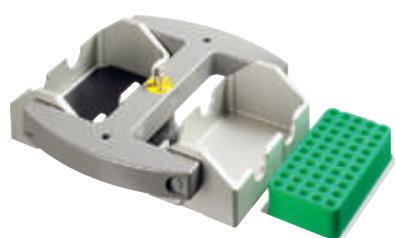


Cat. No. **4316¹¹⁾**

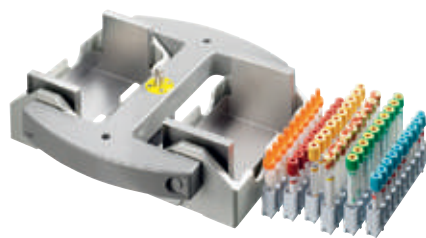
D x W x H in mm	20 x 70 x 118	25 x 60 x 193	210 x 110 x 44
Cat. No.	Hitachi racks	Behring racks	rack, 50-place
carrier Cat. No. 4285-A			
rotor Cat. No. 4282			
Cat. No.	4287-B	4288-A	4263-A
boring Ø x L in mm	-		
plates/racks per rotor	20	10	2
max. RCF ²⁾	2,652	2,652	2,579
radius in mm	183	183	178
run-up in sec	87		
run-down in sec, braked	87		
temperature in °C ¹⁾	-8		

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.	-	0528²⁾	-	0531²⁾
carrier Cat. No. 4275				
rotor Cat. No. 4274				
Cat. No.	4278-A	0771	4277	4276
boring Ø x L in mm	-			
tubes per rotor	4			
max. RCF ²⁾	984		961	
radius in mm	220		215	
run-up in sec	18			
run-down in sec, braked	23			
temperature in °C ¹⁾	-8			

rotor 4282:



illustrated with carriers 4285-A,
inserts 4263-A and rack, 50-place




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

capacity in ml	25	50
Cat. No.	0532	0533
rotor Cat. No. 4316¹¹⁾		
Cat. No.	4317	-
boring Ø x L in mm	25x86	
tubes per rotor	6	
max. RCF ²⁾	783	805
radius in mm	175	180
run-up in sec	48	
run-down in sec, braked	48	
temperature in °C ¹⁾	-12	

¹¹⁾ In heating/cooling model 4910-50 rotor 4316 can only be used up to a maximum of + 40 °C.

ROTIXA 50 S/50 RS

TECHNOLOGY	ROTIXA 50 S	ROTIXA 50 RS
Floorstanding centrifuge, without rotor	classic	refrigerated
Power supply ^{*)}	208 – 240 V 1~	220 – 240 V 1~
Frequency	50 – 60 Hz	
Consumption	2,700 VA	3,680 VA
Emission, Immunity	EN / IEC 61326-1, class B	
 Max. capacity	4 x 1,000 ml	
Max. RPM (speed)	4,500 min ⁻¹	
Max. RCF	5,252	
Running time	1 sec – 999 min : 59 sec, ∞ continuous run	
Dimensions (HxWxD)	1,030 x 650 x 720 mm	
Weight	approx. 115 kg	approx. 172 kg
Refrigeration		
Temperature control, infinitely variable	-	from - 20 to + 40 °C
Cat. No.	4905	4910

^{*)} 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.