

Maximum performance in microlitre centrifugation coupled with reliability in daily laboratory routine

HT1103-powerful and versatile not only in microlitre centrifugation. Equipped with a variable, maintenance-free frequency drive and the Hettich N control panel the centrifuge generates a max. RCF of 23,907 at a speed of 18.000 min⁻¹.

With an extensive range of rotors the HT1103 meets all demands required of a small high-performance centrifuge today.

Hettich manufactures high quality centrifuges.

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



Evidence of conformity with national and international regulations such as IEC 1010-2.2 and EC standards is provided by corresponding certificates.

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

HT1103 in Brief

Performance

High RCF

up to 3,904 with 50 ml tubes, up to 23,907 with microlitre tubes.

Extremely short **run-up** and **run-down times**.

Wide range of accessories

angle and swing-out rotors, adapters for many different centrifuge tubes.

Technology

Twist lock

for effortless opening and closing of the lid.

Ergonomically arranged controls and displays

Viewing port in the lid

3 complete running programmes can be stored and recalled.

Safety

Housing and lid of metal

Centrifuge chamber of stainless steel

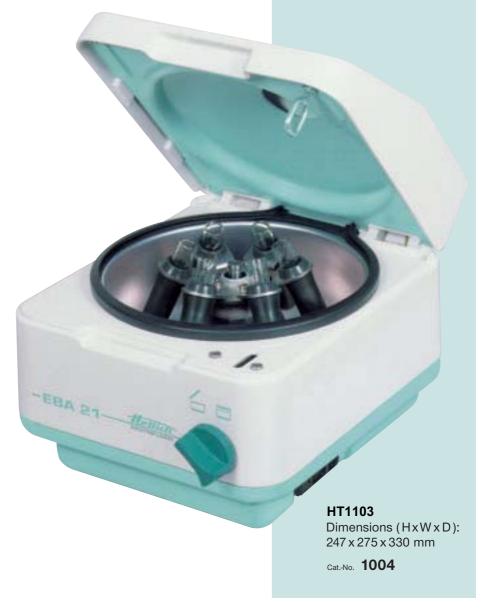
Lid locking and holding during rotor run

Lid dropping protection

Emergency lid lock release

Imbalance switch-off

Automatic rotor recognition





Angle rotor, 6-place, n = 6,000 min⁻¹, RCF 3,904 Cat.-No. 1116

capacity in ml	7	15	25	30	50	50	15	50	10
dimensions Ø x L mm	12 x 100	17 x 100	24 x 100	26 x 95	29 x 107	34 x 100	17 x 120	29 x 115	16 x 92
CatNo.	0578	0518	0519	0545	0546	0521	0509	0513	blood collec- tion tube
	2)	2)	2)			2)	11.11.11	1 1 1 1 1 1 1 1 1 1	
CatNo. 1116							0	0	
CatNo.	1632	1635	1633	1633	1634	-	1631	1641	1635
tubes per rotor	18	6	6	6	6	6	6	3	6
RCF	3,824	3,703	3,622	3,622	3,783	3,904	3,743	3,824	3,703
radius in mm	95	92	90	90	94	97	93	95	92
run-up in sec	23								
run-down in sec		27 🔘 624 🔘							

capacity in ml



Angle rotor, 12-place, n = 6,000 min⁻¹, RCF 4,105 Cat.-No. 1416

braked run-down at level 9

unbraked run-down

The fully developed up to date N control panel meets the requirements of the users and is extremely easy to operate.

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

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

The parameters remain in the memory even after the centrifuge has been switched off.

Speed RPM: Input in increments of 10.

Relative centrifugal force RCF: Input in increments of 10.

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

Running time t: Input in minutes and seconds, max. 99 minutes.

Run-up/run-down times: Input of acceleration and braking ramps in levels 1 - 9 or unbraked run-down.

Memory: 3 complete running programmes can be stored and recalled.

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

		I				
dimensions Ø x L mm	13 x 75	17 x 100	17 x 120	13 x 75	13 x 100	
CatNo.	-	0518	0509	blood colle	ction tubes	
		2)	11-1-1-1-1	J	J	
CatNo. 1416						
CatNo.	1054	-	-	1054	-	
tubes per rotor	12	12	6	12	12	
RCF	3,300	4,146	4,146	3,300	4,146	
radius in mm	82	82 103 82		82	103	
run-up in sec	18					
run-down in sec	23 🔘 391 🔘					

15

15

5

1.6 - 5





ZENTRIFUGEN



₹45°

Angle rotor, 12-place, n= 18,000 min⁻¹, RCF 23,907

Cat.-No. **1112**



Angle rotor, 24-place, n= 15,000 min⁻¹, RCF 21,885

Cat.-No. 1095

aerosol-tight 1)



Angle rotor, 30-place, n= 14,000 min⁻¹, RCF 21,255

Cat.-No. 1089

aerosol-tight 1)

braked run-down at level 9

unbraked run-down

¹⁾ In compliance with DIN EN 61010, part 2-020

capacity in ml	0.2 / 0.4	0.5	0.8	1.5	2.0			
dimensions Ø x L mm	6 x 18/45	8 x 30	8 x 45	11 x 38	11 x 38			
CatNo.	-	-	-	2078	0536			
CatNo 1112				when centrifuging at high speeds we recommend to use adapter No. 2031				
CatNo.	2024	2023	2023	-	-			
tubes per rotor			12					
RCF			23,907					
radius in mm		66						
run-up in sec	14							
run-down in sec		D.	18 [()] 17	'2				

capacity in ml	0.2 / 0.4	0.5	0.8	1.5	2.0			
dimensions Ø x L mm	6 x 18/45	8 x 30	8 x 45	11 x 38	11 x 38			
CatNo	-	ı	ı	2078	0536			
	Ĵ							
CatNo 1095				when centrifuging at high speeds we recommend to use adapter No. 2031				
CatNo.	2024	2023	2023	-	-			
tubes per rotor			24					
RCF			21,885					
radius in mm	87							
run-up in sec	32							
run-down in sec		[] 32 [] 690						

capacity in ml	0.2 / 0.4	0.5	0.8	1.5	2.0		
dimensions Ø x L mm	6 x 18/45	8 x 30	8 x 45	11 x 38	11 x 38		
CatNo.	-	-	-	2078	0536		
CatNo. 1089				when centrifuging at high speeds we recommend to use apapter No. 2031			
CatNo.	2024	2023	2023	-	-		
tubes per rotor			30				
RCF			21,255				
radius in mm	97						
run-up in sec	40						
run-down in sec		O 4	0 [()] 80	0			



Swing-out rotor, 8-place, n = 5,000 min⁻¹, RCF 2,879 Cat.-No. 1114



Swing-out rotor, 6-place, n = 5,000 min⁻¹, RCF 2,879 _{Cat-No.} 1115

capacity in ml	5	10	1.6 - 5	2.6 - 2.9	2.7 - 3	4 - 5.5		
dimensions Ø x L mm	12 x 75	17 x 70	13 x 75	13 x 65	11 x 66	15 x 75		
CatNo.	-	2079		blood colle	ction tubes			
			J					
CatNo. 1114								
CatNo.	1127	1122	1127	1127	1127	1122		
tubes per rotor				8				
RCF		2,879						
radius in mm	103							
run-up in sec	9							
run-down in sec			14 [(] 122				

capacity in ml	5	10	15			
dimensions Ø x L mm	12 x 75	17 x 70	17 x 100			
CatNo.	-	2079	0518			
			2)			
CatNo. 1115	•	•				
CatNo.	1123/1054	1123/2 x 0716	1123			
tubes per rotor		6				
RCF	2,292	2,739	2,879			
radius in mm	82	98	103			
run-up in sec		8				
run-down in sec	□ 12 □ 172					

braked run-down at level 9 unbraked run-down



Angle rotor, 12-place, n = 5,000 min⁻¹, RCF 2,879 _{Cat-No.} 1118

					CatNo.	1118		
					CatNo.		_	-
					tubes per	rotor	1	2
					RCF		2,8	379
					radius in	mm	10	03
					run-up in	sec	1	0
					run-dowr	n in sec	1 13	[()]133
ity in ml	5	6	10	1.6 - 5	4 - 7	2.6 - 2.9	2.7 - 3	4 - 5.5

capacity in ml

Cat.-No.

dimensions Ø x L mm

5

12 x 75 | 12 x 100

0578

₹90°	

Swing-out rotor, 8-place, n = 5,000 min⁻¹, RCF 2,879 _{Cat-No} 1120

capacity in ml	5	6	10	1.6 - 5	4 - 7	2.6 - 2.9	2.7 - 3	4 - 5.5	
dimensions Ø x L mm	12 x 75	12 x 82	17 x 70	13 x 75	16 x 75	13 x 65	11 x 66	15 x 75	
CatNo.	-	0501	2079		blood	collection	tubes		
		2)		J	J				
CatNo. 1120	٦	٦	۞						
CatNo.	1131	1131	1132	1131	1132	1131	1131	1132	
tubes per rotor				8	В				
RCF		2,879							
radius in mm	103								
run-up in sec	8								
run-down in sec				1 12 (○]86				

braked run-down at level 9 unbraked run-down



∢70°

Swing-out rotor, 12-place, n= 5,000 min⁻¹, RCF 2,879

Cat.-No. **1126**



Hematocrit rotor, 24-place, n= 15,000 min⁻¹, RCF 21,382

Cat.-No. **1450**

capacity in ml	5	1.6 - 5	2.6 - 2.9	2.7 - 3	
dimensions \emptyset x L mm	12 x 75	13 x 75	13 x 65	11 x 66	
CatNo.	-	blood	collection	tubes	
CatNo 1126					
CatNo.		11	27		
tubes per rotor		1	2		
RCF		2,8	379		
radius in mm		10	03		
run-up in sec	10				
run-down in sec		15 [(] 165		

	capillaries, heparinized	capillaries, heparinized mylar-coated	capillaries, heparinized self- sealing, mylar-coated		
CatNo.	2074	1072	1071		
CatNo 1450	sealing putty	sealing putty			
CatNo.	2077	2077	-		
capillaries per rotor		24			
RCF	21,382				
radius in mm	85				
run-up in sec	8				
run-down in sec	D 1	2 [()]11	7		

braked run-down at level 9 unbraked run-down

Technical Details



HT1103	HT1103
Benchtop centrifuge, without rotor	Benchtop centrifuge, without rotor
Cat. No.: 1004	Cat. No.: 1004 - 01

* * Power supply:	220 - 240 V 1~	110 - 127 V1~	
Frequency:	50 - 60 Hz	50 - 60 Hz	
Consumption:	500 VA	550 VA	
Radio interference:	EN 55011 ISM class B	FCC class B	
Immunity:	EN 50082		
*Capacity:	6 x 50 ı	ml	
* Speed / * RCF:	n= 18.000 min ⁻¹ / RCF 23.907		
Running time:	1-99 min, ∞ (continuous run), short cycle mode (in sec.)		
Discounting at the second		200	

Dimensions (HxWxD):	247 x 275 x 330 mm	
Weight:	approx. 11 kg	

Design:

Housing and lid of metal for safety. Coating finished in scratch and impact resistant plastic. Centrifuging chamber of stainless steel. Lid locking, lid holding, twist lock, and imbalance switch-off are standard.



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