

ROTOFIX 46 / 46 H

Special applications require special solutions

The robust and highly adaptable ROTOFIX 46 / 46 H models have been specially developed for use in industrial and research laboratories.

They are mainly used for standardized quality assurance procedures, but are also suited to special applications in research.





TECHNOLOGY	пото	FIX 46	ROTOFIX 46 H			
Benchtop centrifuge, without rotor	cla	ssic	heated			
Power supply*)	200-240 V 1 ~	100-127 V 1 ~	200-240 V 1 ~ 100-127 V			
Frequency		50-6	0 Hz			
Consumption	460 VA	500 VA	600 VA	650 VA		
Emission, Immunity	EN/IEC 61326-1, class B	FCC class B	EN/IEC 61326-1, class B	FCC class B		
Max. capacity	4 x 2	90 ml	4 x 100 ml			
Max. RPM (speed)	4,000) min ⁻¹	2,000 min ⁻¹			
Max. RCF	3,0	095	984			
Running time	1 s – 99 min	: 59 sec, continuous r	un, short cycle mode (ii	mpulse key)		
Dimensions (H x W x D)		345 x 538	x 647 mm			
Weight		approx	. 60 kg			
Heating						
Temperature setting, infinitely variable (dependent on the ambient temperature) ¹⁵⁾		-	from +10 °C to +90 °C			
Cat. No.	4600	4600-01	4600-50	4600-51		

^{*)} Other voltages on request

¹⁵⁾ With the heating switched-off, the temperature within the centrifuge will be above ambient temperature, depending on the speed, type of rotor and run time. Activation of the heating can cause this temperature to rise, but it cannot be reduced to a lower value.



Because of their assigned use, ROTOFIX 46 / 46 H centrifuges are not classified as medical products.

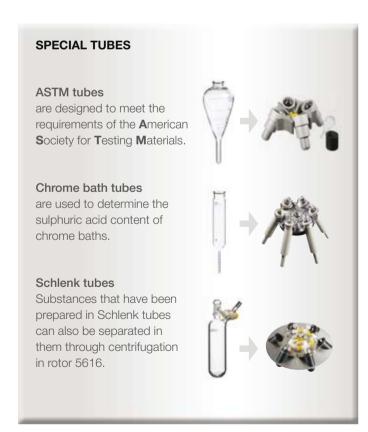
The sulphuric acid content of chrome baths used in galvanizing facilities has to be checked regularly for quality assurance purposes.

Measurements may be carried out using chrome bath tubes which can be centrifuged in the ROTOFIX 46.

Schlenk tubes – glass vessels widely used in organometallic and coordination chemistry – can be centrifuged in the 5616 rotor in the ROTOFIX 46.

Substances that have been prepared in the Schlenk tubes can then be separated in the tubes through centrifugation, if necessary.

The ROTOFIX 46 H is equipped with heating. For standardized petroleum tests suitable sample tubes can be centrifuged at the required temperature.





ROTOFIX 46

illustrated with rotor 5616

Cat. No. 4600

ROTORS FOR ROTOFIX 46 AND 46 H

Swing-out rotor, 4-place, for ASTM tubes and 50 ml Babcock flask

Cat. No. (without carriers) 4474



max. RCF 984

illustrated with carriers 4275

Swing-out rotor, 6-place, for chrome bath tubes



 $4 90^{\circ} \text{ n} = 2,000 \text{ min}^{-1}$ max. RCF 917

Cat. No. 4619³⁴⁾

Angle rotor, 6-place, for Schlenk tubes



 $\angle 45^{\circ}$ n = 2,000 min⁻¹ max. RCF 805

Cat. No. 5616³⁴⁾

30
24×151
0529/0508 ⁶⁾
-
-
6
917
205
15
20

capacity in ml	50	100	100	100	50	
Ø x L in mm	45×130	58×161	44×168	37×200	36.5 x 185	
Cat. No.	ASTM 2)	ASTM 0528 ²⁾	ASTM 2)	ASTM 0531 ²⁾	Babcock	
Carrier Cat. No. 4275						
Rotor Cat. No. 4474					•	
Cat. No.	4278-A	0771	4277	4276-A	0703-A	
boring Ø x L in mm			-			
tubes per rotor			4			
max. RCF ²⁾	S	984	S	61	912	
radius in mm	2	220	215 204			
run-up in sec			16			
run-down in sec, braked			40			

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. 5616 ³⁴⁾		
Cat. No. 5616 ³⁴⁾	4317	-
	4317 25 x 86	- 38.5 x 89.9
Cat. No.	25 x 86	- 38.5 x 89.9
Cat. No. boring Ø x L in mm	25 x 86	
Cat. No. boring Ø x L in mm tubes per rotor	25 x 86	3
Cat. No. boring Ø x L in mm tubes per rotor max. RCF ²⁾	25 x 86 783 175	805

The method used for determination of the sulphate content of chrome baths can be ordered from Hettich free of charge.

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.

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

 $^{^{34)}}$ In heatable model ROTOFIX 46 H, rotors 4619 and 5616 may only be used up to a maximum of + 40 $^{\circ}$ C.



${\hbox{ROTOR}}$ for rotofix 46, **not for rotofix 46 h**

Swing-out rotor, 4 -place



illustrated with carriers 5051 and lids 5053

≠90° n = 4,000 min⁻¹

max. RCF 3,095

Cat. No. (without carriers) 5694

capacity in ml	3	5	6	7	9	15	25	50	100	100
Ø x L in mm	10 x 60	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.	-	0553 ²⁾	0501 ²⁾	0578 ²⁾	0500 ²⁾	0518 ²⁾	0519 ²⁾	0521 ²⁾	0526 ²⁾	0523 ²⁾
lid Cat. No. 5053										
Carrier Cat. No. 5051							3-8			
Cat. No.	5267	52	27	5247 18)	5264	5248 ¹⁸⁾	5242	5243	5262	5249
boring Ø x L in mm	11 x 44	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		8	0		4	8	20	8	4	1
max. RCF ²⁾	2,737	2,7	73	2,755	2,773	2, 755				
radius in mm	153	15	55	154	155	154				
run-up in sec		40								
run-down in sec, braked		45								

capacity in ml	15	50	12	30	50
Ø x L in mm	17 x 120	29 x 115	17 x 100	25 x 110	29 x 115
Cat. No.	0509	0513	-	-	
lid Cat. No. 5053	3)	3)		3)	3)
Carrier Cat. No. 5051					+ 2 x 6316
Cat. No.	6306	5259	6306	5266	5243 ⁴⁾
boring Ø x L in mm	17 x 90	30 x 86	17 x 90	26 x 86	36 x 86
tubes per rotor	28	8	28	20	8
max. RCF ²⁾	2,898	2,826	2,898	2,7	55
radius in mm	162	158	162	15	54
run-up in sec			40		
run-down in sec, braked			45		

 $^{^{\}rm 3)}$ $\,$ When using these tubes, carrier 5051 cannot be closed with lid 5053.

Please remove the inserts.

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

ROTOR FOR ROTOFIX 46, NOT FOR ROTOFIX 46 H Swing-out rotor 5694



Illustrated with carriers 5092 and lids 5093 with bio-containment⁵⁾

capacity in ml	4	5	6	7	15	25	50	100	100	250
Ø x L in mm	12 x 60	12x75	12×82	12x100	17×100	24×100	34×100	44×100	40×115	65×115
Cat. No.	-	0553 ²⁾	0501 ²⁾	05782)	05182)	0519 ²⁾	0521 ²⁾	05262)	0523 ²⁾	0530 ²⁾
lid with bio-containment ⁽⁵⁾ Cat. No. 5093										
Carrier Cat. No. 5092							0	O	O	
Cat. No.		5128		5120	5136	5122	5124	5125	5126	1791
boring Ø x L in mm		12.8x45		12.8x82	17.5 x 60.7	25.5×82	35.5 x 82.5	45.5 x 85	42×85	66×103
tubes per rotor		4	8		32	16	4			
max. RCF ²⁾	3,005				2,952	2,898	2,952 3,00		3,095	
radius in mm	168				165	162	165 173			173
run-up in sec		40								
run-down in sec, braked					4	5				

capacity in ml	15	50	12	25	30	50	10	250	290
Ø x L in mm	17×120	29×115	17×100	25×90	25×110	29×115	16x80	61 x 122	62×137
Cat. No.	0509	0513			-			5127 ²⁸⁾	_ 28)
lid with bio-containment ⁵⁾ Cat. No. 5093									
Carrier Cat. No. 5092					COES				
Cat. No.	5129	5123	5121	5134	5122	5135	5136	63	19
boring Ø x L in mm	17x85	30×85	17.5x82	26×73	25.5×82	30×99	17.5 x 60.7	66 x	103
tubes per rotor	28	8	28	12	16	8	32	4	1
max. RCF ²⁾	3,0	95	3,005	2,826	2,898	3,023	2,952	3,0	95
radius in mm	17	73	168 158 162 169 165		173				
run-up in sec					40				
run-down in sec, braked		45							

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

²⁸⁾ At temperatures of over +40 °C and / or when not filled to capacity, bottles may warp during centrifugation.