

BENCHTOP CENTRIFUGES

— ROTOFIX 46 | 46 H

ROBUST INDUSTRIAL UNIT

These are ideal centrifuges for research and industrial laboratories. They are robust and can withstand intensive usage, even in the field. Specialty buckets are able to hold ASTM pear-shaped and conical tubes for petroleum testing.

Heated option provides chamber temperature up to +90 °C (ROTOFIX 46 H).



— HIGHLIGHTS

- max. RPM: 4,000 min⁻¹ | 2,000 min⁻¹
Adjustable in increments of 10
- max. RCF: 3,095 | 984
- max. capacity: 4 x 290 ml | 4 x 100 ml
- robust and versatile benchtop centrifuge
- choice of 4 rotors
- maximum noise level of ≤ 58 dB(A)
- impulse button for short centrifugation
- easy operation with keypad
- Model 46 H heatable from +10 to +90 °C

— FEATURES

- metal housing and lid
- viewing port in the lid
- twist lock
- lid dropping protection
- emergency lid lock release
- stainless steel chamber
- automatic rotor recognition
- brushless drive
- error display
- imbalance switch-off
- control panel with actual values of all parameters
- auditory message after completion of the centrifugation run

TECHNICAL DATA

	ROTOFIX 46 non-refrigerated	ROTOFIX 46 H heated
voltage *)	200 – 240 V 1 ~	200 – 240 V 1 ~
frequency	50 – 60 Hz	50 – 60 Hz
consumption	460 VA	600 VA
emission, immunity	EN/IEC 61326-1, class B	EN/IEC 61326-1, class B
max. capacity	4 x 290 ml	4 x 100 ml
max. RPM	4,000 min ⁻¹	2,000 min ⁻¹
max. RCF	3,095	984
running time	1 – 99 min : 59 sec, ∞ continuous run, short cycle mode (impulse button)	1 – 99 min : 59 sec, ∞ continuous run, short cycle mode (impulse button)
dimesions (WxDxH)	538x647x345 mm	538x647x345 mm
weight	approx. 60 kg	approx. 60 kg
noise level	58 dB (A) with rotor 4474	58 dB (A) with rotor 4474
temperature setting, infinitely variable (dependent on the ambient temperature)	-	from +10 to +90 °C
Cat. No.	4600	4600-50
100 – 127 V 1 ~ / 50 – 60 Hz *)	4600-01	4600-51
consumption	500 VA	650 VA
emission, immunity	FCC class B	FCC class B

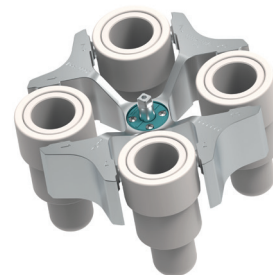
*) Other voltages on request.

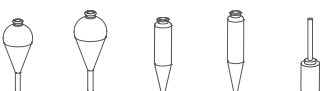
AVAILABLE ROTORS

SWING-OUT ROTORS	angle	max. RPM	max. capacity	Cat. No.	page
 swing-out rotor, 4-place	90°	2,000 min ⁻¹	4x100 ml	4474	3
 swing-out rotor, 4-place	90°	4,000 min ⁻¹	4x290 ml	5694	3

SWING-OUT ROTOR, 4-PLACE | 4474

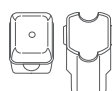
			
Rotor		Bucket	
max. RPM max. RCF	2,000 min ⁻¹ 984	Cat. No.	4275
max. capacity	4 x 100 ml		
run-up run-down, braked in sec	16 40		
angle max. noise level	90° 58 dB (A)		
Cat. No.	4474		

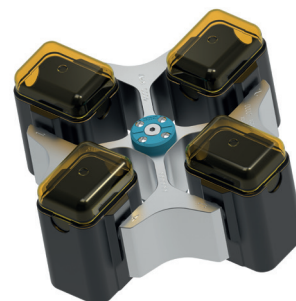


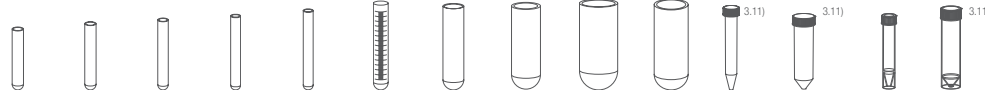
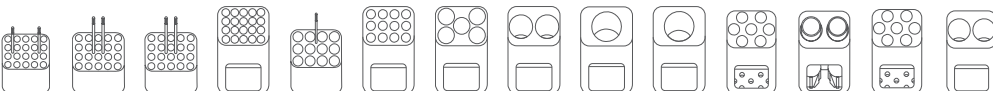
	
Tubes	
capacity in ml	50 100 100 100 50
Ø x L in mm	45 x 130 58 x 161 44 x 168 37 x 200 36.5 x 185
max. RCF ^{2,1)}	984 984 961 961 912
radius in mm	220 220 215 215 204
Cat. No.	ASTM^{2,1)} 0528^{2,1)} ASTM^{2,1)} 0531^{2,1)} Babcock

	
Adapter	
boring Ø x L in mm	- - - - -
tubes per rotor	4 4 4 4 4
Cat. No.	4278-A 0771 4277 4276-B 0703-A

SWING-OUT ROTOR, 4-PLACE | 5694 (NOT FOR 46 H)

			
Rotor		Bucket	
max. RPM max. RCF	4,000 min ⁻¹ 3,095	lid	5053
max. capacity	4 x 100 ml	Cat. No.	5051
run-up run-down, braked in sec	40 45		
angle max. noise level	90° 58 dB (A)		
Cat. No.	5694		



	
Tubes	
capacity in ml	3 5 6 7 9 15 25 50 100 100 15 50 12 50
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 17 x 120 29 x 115 17 x 100 29 x 115
max. RCF ²⁾	2,737 2,773 2,773 2,755 2,773 2,755 2,755 2,755 2,755 2,755 2,898 2,844 2,898 2,755
radius in mm	153 155 155 154 155 154 154 154 154 154 162 158 162 154
Cat. No.	tubes²⁾ tubes with screw cap
	
Adapter	
boring Ø x L in mm	11 x 44 12.5 x 39.5 12.5 x 39.5 12.5 x 82.5 16 x 50 17.5 x 82.5 26 x 82.5 36 x 82.5 45.5 x 82.5 42 x 82.5 17 x 90 30 x 82.5 17 x 90 36 x 82.5
tubes per rotor	80 80 80 80 48 48 20 8 4 4 28 8 28 8
Cat. No.	5267 5227 5227 5247¹⁵⁾ 5264 5248¹⁵⁾ 5242 5243 5262 5249 6306 5259 6306 5243⁴⁾

SWING-OUT ROTOR, 4-PLACE | 5694 (NOT FOR 46 H)

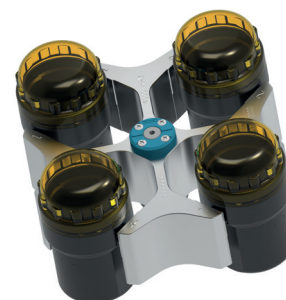
Rotor

max. RPM max. RCF ²⁾	4,000 min ⁻¹ 3,095
max. capacity	4 x 290 ml
run-up run-down, braked in sec	40 45
angle max. noise level	90° 58 dB (A)
Cat. No.	5694



Bucket

lid bioseal ³⁾	5093
Cat. No.	5092



Tubes

capacity in ml	5	7	15	25	50	100	100	250	15	50	12	25	30	25	250	
Ø x L in mm	13x75	12 x 100	17 x 100	24 x 100	34 x 100	44 x 100	40 x 115	65 x 115	17 x 120	29 x 115	17 x 100	25 x 90	25 x 110	25 x 90	61 x 122	
max. RCF ²⁾	3,005	3,005	2,952	2,898	2,952	2,952	2,952	3,095	3,095	3,095	3,005	2,826	2,898	2,826	3,095	
radius in mm	168	168	165	162	165	165	165	173	173	173	168	158	162	158	173	
Cat. No.	tubes ²⁾								tubes with screw cap							5127 ²⁴⁾



Adapter

boring Ø x L in mm	12.8 x 42	13.2 x 82	17.5 x 56.7	25.5 x 74	35.5 x 77.5	45.5 x 76.5	42 x 76.5	66 x 103	17 x 85	30 x 85	17.5 x 79.5	26 x 73	25.5 x 74	26 x 73	62 x 90
tubes per rotor	48	48	32	16	4	4	4	8	28	8	28	12	16	12	4
Cat. No.	5128	5120	5136	5122	5124	5125	5126	1791	5129	5123	5121	5134	5122	5134	6319



Tubes

capacity in ml	290
Ø x L in mm	62 x 137
max. RCF ²⁾	3,095
radius in mm	173
Cat. No.	- 24)



Adapter

boring Ø x L in mm	62 x 90
tubes per rotor	4
Cat. No.	6319



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.

2.1) Please note that the RCF values indicated refer only to rotor performance. The max. permissible RCF of vessels used should be verified with the individual manufacturers. The max. RCF for ASTM Tubes annotated with footnote 2) is 700.

3.1.1) When using these tubes, bucket 5051 cannot be closed with lid 5053.

4) Please remove the spacer.

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

6) A rubber stopper for closing the tube for agitating or mixing is available under Cat. No. 0535. The tube may not be centrifuged with the stopper.

15) Also available with decanting aid. (Cat. No. 5247-91 or 5248-91).

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

30) In the heatable models 5660-50, 5660-51, 5660-70, 5670-50 and 5675-50, rotor 4619 may only be used up to a maximum of +40 °C.

CERTIFICATIONS / REGISTRATIONS

Product certification:



Product registration:



Company certifications:



DIMENSIONS

