

ROTOFIX 46 | 46 H

Robust industrial unit

These are ideal centrifuges for research and industrial laboratories. They are robust and can withstand intensive usage, 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).

— FEATURES

- 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

— FIELDS OF APPLICATION

- Petrochemical laboratories
- Automobile industry
- Chemical laboratories



More information about the control panel can be found on [page 202](#)



INDUSTRIAL
DEVICE

CE



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)
dimensions (WxDxH)	538 x 647 x 345 mm	538 x 647 x 345 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	134
 swing-out rotor, 4-place	90°	4,000 min ⁻¹	4x290 ml	5694	134

SWING-OUT ROTOR, 4-PLACE | 4474



Rotor

max. RPM max. RCF	2,000 min ⁻¹ 984
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

Bucket

lid	5053
Cat. No.	4275



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)}	ASTM^{2,1)} 0531^{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)

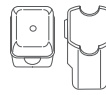


Rotor

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

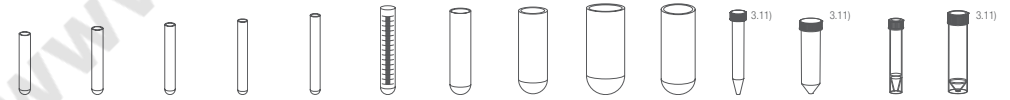
Bucket

lid	5053
Cat. No.	5051



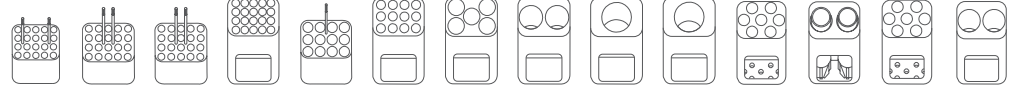
Tubes

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			

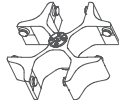


Adapter

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	5247¹⁹⁾	5264	5248¹⁹⁾	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 ⁵⁾	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	13 x 75	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.	tubes³⁾											tubes with screw cap			5127²⁴⁾



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.



LABORATORY EQUIPMENT MAINTENANCE, REPAIR, CALIBRATION AND SALES

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