



*Microcentrifuge*

**1-16**



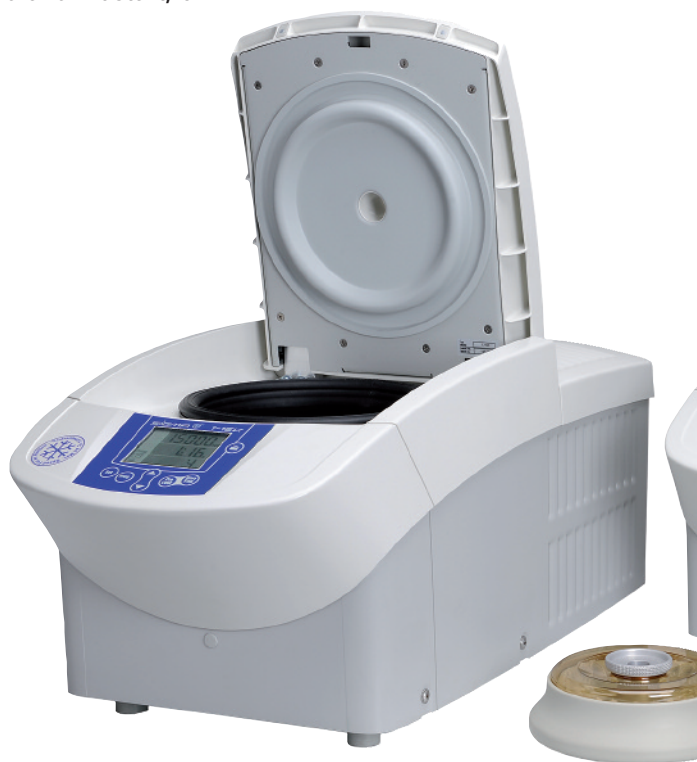
*Refrigerated Centrifuge*

**1-16K**

**SIGMA 1-16** No. 10025 (220-240 V, 50/60 Hz), No. 10026 (120 V, 60 Hz), No. 10027 (100 V, 50/60 Hz)

The ergonomics and the beautiful design of this brand new generation of laboratory centrifuges will help make your work in the lab easier. Close the lid and hit start, or make use of the programming options.

- bright display
- big push buttons
- minimal temperature increase during run
- maintenance-free brushless drive motor
- motorized lid lock, auto lid open
- last run memory
- 2 acceleration- and deceleration curves, soft or fast
- stainless steel bowl
- emergency lid lock release
- window in the lid for external speed control
- overspeed controller
- according to EN 61010-2-020
- RoHS conform



**SIGMA 1-16K** No. 10030 (220-240 V, 50/60 Hz), No. 10031 (120 V, 60 Hz) No. 10032 (100 V, 50/60 Hz)

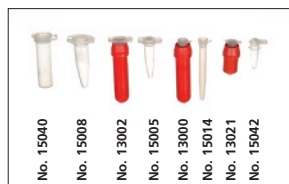
- refrigerated version of 1-16
- precooling of the rotors during standstill, refrigerant CFC-free (R 134 a)
- guaranteed 4°C at max speed for all rotors

**Created during production. Centrifuge with one rotor.**

	<b>Sigma 1-16</b>	<b>Sigma 1-16K</b>
Calibration certificate for speed and time	No. 17714	No. 17714
Calibration certificate for temperature, speed and time	-	No. 17715
IQQQ	No. 17710	No. 17711
For a further rotor	No. 17712	No. 17712

**Adapters for rotors 12024, 12134, 12136**

- No. 13000 for microtubes 0.25/0.4 ml
- No. 13002 for PCR-tubes 0.5 ml no. 15005
- No. 13021 for PCR-tubes 0.2 ml no. 15042



**Microtubes**

- No. 15040 reaction vial 2.0 ml
- No. 15008 reaction vial 1.5 ml
- No. 15005 reaction vial 0.5 ml
- No. 15014 reaction vial 0.4 ml
- No. 15042 reaction vial 0.2 ml PCR

## SIGMA 1-16 SIGMA 1-16K



No. 11024  
Microhematocritrotor  
24 x  $\varnothing$  1.5 x 75 mm  
max. 12,000 min<sup>-1</sup>  $\hat{=}$  13,684 x g

No. 17024  
Disreader for rotor 11024

No. 15001  
Capillary tubes  $\varnothing$  1.5 x 75 mm, 200 pcs

No. 17005  
Capillarytube sealing putty (10 plates)

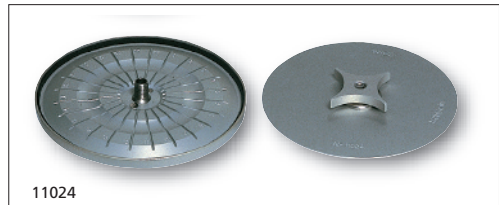
No. 17004  
Magnifying glass

No. 12134  
PP-Rotor  
24 x 1.5 – 2.0 ml  
max. 15,000 rpm  $\hat{=}$  20,627 x g  
incl. hermetic plastic lid

No. 12135  
PP-Rotor  
4 x 8 PCR 0.2 ml  
max. 15,000 rpm  $\hat{=}$  16,602 x g  
incl. hermetic plastic lid

No. 12024  
Aluminiumrotor  
24 x 1.5 – 2.0 ml  
max. 15,000 rpm  $\hat{=}$  20,627 x g  
incl. hermetic plastic lid

No. 12136  
Aluminiumrotor  
36 x 1.5 – 2.0 ml  
max. 15,000 rpm  $\hat{=}$  20,124 x g  
incl. biosafe aluminium lid



11024



12134



12135



12024



12136



### Certificate of conformity with European Standards Dynamic microbiological test for BIOSEALS

Registered No.:  
44 799 12 415541

Reference of applicant	Date of application	File reference	Test report No.	Date of issue
	04.12.2012	8000410541	12 799 415541	16.12.2012

This is to certify that the following products comply to the essential requirements of the below mentioned European Standard:

**Product:** Accessories for centrifuges

**Type designation:** Fixed angle rotor 12136

**Applicant:** Sigma Laborzentrifugen GmbH  
An der Unteren Söses 50  
37520 Osterode am Harz

**Standard(s):** Annex AA of DIN EN 51010-2:0203-2007  
Dynamic microbiological test for BIOSEALS

This Certificate of conformity is based on the evaluation of one sample of the product. It does not imply an assessment of the production and it does not permit the use of a mark of conformity or of a safety mark of the TUV NORD CERT GmbH.

  
Certification Body  
Specialized Storage Consumer Products

TUV NORD CERT GmbH  
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D-51141 Essen  
P.O. Box: 10 12 51  
D-42699 Solingen  
Fax: +49 (0)201 623-5120  
E-mail: product@tuv-nord.de



Sigma 1-16K

Timer	10sec - 99 min 59 sec
Time increments [sec]	1
Continuous	+
Short run	+
Speed increments [rpm]	100
RCF increments [xg]	10
Display speed or g-force	+
Acceleration-, deceleration curve	Fast, soft
Programs	10
Fast cool program Rapid temp*	+
Display temperature set, actual*	+
Temperature increments [°C]*	1
Microprocessor controlled	+

Technical data	1-16	1-16K	
Power consumption [W]	220-240 V	170	420
	120 V	160	460
	100 V	170	550
Max. capacity [ml]	36 x 2.0	36 x 2.0	
Max. speed [rpm]	15,000	15,000	
Min. speed [rpm]	200	200	
Interference suppression	EN 61326	EN 61326	
Height x Width x Depth [mm]	271 x 310 x 418	291 x 310 x 660	
Height with open lid [mm]	527	547	
Weight without rotor [kg]	13	32	
Kinetic energy max. [Nm]	5,176	5,176	
Noise level at max. speed (approx.)	59 dB (A)	58 dB (A)	
Max. acceleration (Rotor 12134) [sec]	13	15	
Min. deceleration (Rotor 12134) [sec]	13	13	
Temperature setting range [°C]*	-	-10 – +40	
Min. rotor temperature *)			
Rotor 12134 at 15,000 rpm [°C]	-	< 4	

\* 1-16K only

MADE IN GERMANY

**SIGMA**   
Laboratory Centrifuges

**SIGMA Laborzentrifugen GmbH**

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