

# Sigma 1-14 Sigma 1-14K



Microcentrifuge

- ambient
- refrigerated

# The most compact centrifuge in its class

Small, quiet and powerful – the Sigma 1-14 is a top performer in a wide variety of applications. This compact powerhouse is available in both cooled (Sigma 1-14K) and uncooled (Sigma 1-14) versions. With its outstanding technical features, this very slim, space-saving model has impressive specifications: maximum speed 14,800 rpm, maximum RCF 16,163 x g with a capacity of 24 x 1.5–2 ml. Users appreciate the oversize function buttons and uncluttered display – the Sigma 1-14 stands for easy, convenient operation.



## Sigma 1-14

- Clearly organised display
- Large buttons
- Zero-maintenance motor
- Motorised cover lock, automatic lid unlocking
- Timer: 10 s–99 min, 1 s increment, intermittent or continuous
- Speed/RCF indication
- Speed increment 100 rpm
- RCF increment 10 x g
- Two acceleration and braking curves, soft or fast
- Window in lid for independent speed measurement
- Overspeed monitoring
- Manufactured in compliance with EN 61010-2-020

## Sigma 1-14K

Cooled version of the Sigma 1-14 with the same rotor options and convenient operation.

### Additional features:

- Max. speed: 15,000 rpm
- Stainless steel bowl
- Quick cool program
- 10 programs
- R134a refrigerant (CFC-free)
- Temperature adjustment range -10 to +40°C
- Temperature increment 1°C
- Assured +4°C at maximum speed

### Sigma 1-14 centrifuge

220–240 V, 50/60 Hz (Part No. 10014)

100–120 V, 50/60 Hz (Part No. 10015)

### Sigma 1-14K centrifuge

220–240 V, 50/60 Hz (Part No. 10020)

100–120 V, 50/60 Hz (Part No. 10021)

### Device qualification

Sigma Laborzentrifugen GmbH offers various forms of device qualification.

For more information, see Products

> Qualification on our website:

[www.sigma-zentrifugen.de](http://www.sigma-zentrifugen.de)



WEEE-REG-No.  
DE 76714077



## Rotors and accessories



			Sigma 1-14		Sigma 1-14K		
Rotor	Description	Angle [°]	Acceleration/deceleration time <sup>1</sup> [sec]	Max. RCF [x g]	Acceleration/deceleration time <sup>1</sup> [sec]	Max. RCF [x g]	Min. temp. <sup>2</sup> [x g]
Fixed-angle rotor, aluminium	(Part No. 11026) 24 x 1.3 x 50 mm, 19 µl	90	12 / 11	11,903	13 / 12	11,903	4
Fixed-angle rotor, polypropylene	(Part No. 12096) 2 strips (8 x 0.2 ml)	45	10 / 12	11,755	11 / 12	12,074	4
Fixed-angle rotor, aluminium	(Part No. 12082) 12 x 1.5–2 ml	45	18 / 12	15,183	18 / 15	15,596	3
Fixed-angle rotor, polypropylene	(Part No. 12092) 12 x 1.5–2 ml	45	14 / 11	15,183	14 / 13	15,596	3
Fixed-angle rotor, aluminium	(Part No. 12084) 24 x 1.5–2 ml	45 ±3	20 / 13	16,163	21 / 18	16,602	4
Fixed-angle rotor, polypropylene	(Part No. 12094) 24 x 1.5–2 ml	45 ±3	18 / 11	16,163	18 / 14	16,602	3
Fixed-angle rotor, polypropylene	(Part No. 12097) 12 x 1.5–2 ml	45	15 / 12	15,183	18 / 15	15,596	4
Swing-out rotor, aluminium	(Part No. 11128) 6 x 1.5–2 ml	90	–	–	18 / 15	15,596	4

<sup>1</sup>0–100 %, <sup>2</sup>Min. rotor temperature at maximum speed, 1 hour running time, <sup>3</sup> only for Sigma 1-14K

### Adapter, 2 each

0.2 ml for 1.5 ml rotors (Part No. 13021)  
 0.25 – 0.4 ml for 1.5 ml rotors (Part No. 13000)  
 0.5 – 0.75 ml for 1.5 ml rotors (Part No. 13002)

### Reaction vial, 100 each

0.2 ml (Part No. 15042) 1.5 ml (Part No. 15008)  
 0.4 ml (Part No. 15014) 2.0 ml (Part No. 15040)

## Specifications

	Sigma 1-14	Sigma 1-14K
Power consumption [W]	95	230
Maximum capacity [ml]	24 x 2	24 x 2
Maximum speed [rpm]	14,800	15,000
Minimum speed [rpm]	200	200
Max. RCF [x g]	16,163	16,602
RFI suppression	EN 61326	EN 61326
Height x width x depth [mm]	176 x 266 x 212	236 x 515 x 273
Weight without rotor [kg]	6	19
Maximum kinetic energy [Nm]	1721	1768
Noise level at maximum speed (approximate)	< 60	53–59

More on the Web!

Visit the Sigma 1-14/Sigma 1-14K product website

for more information:

[www.sigma-zentrifugen.de](http://www.sigma-zentrifugen.de)

› Sigma 1-14

› Sigma 1-14K



**Sigma Laborzentrifugen GmbH**

An der Unteren Söse 50

37520 Osterode • Germany

Tel. +49 (0) 55 22 / 50 07-0

Fax +49 (0) 55 22 / 50 07-12

[info@sigma-zentrifugen.de](mailto:info@sigma-zentrifugen.de)

[www.sigma-zentrifugen.de](http://www.sigma-zentrifugen.de)