



Sigma 2-16P Sigma 2-16KL Sigma 2-16KHL



Benchtop centrifuge

- ambient
- refrigerated
- refrigerated/
heatable

Compact all-rounder with excellent performance

With its unbeatable high RCF with fixed-angle rotors, the Sigma 2-16P is the top of its class. Extensive accessories are available for this compact, high-performance model. That makes the centrifuge a true all-rounder, suitable for a variety of applications.

With rotor identification and selectable speed up to 15,000 rpm, the Sigma 2-16P has everything you expect from a universal centrifuge. The Sigma 2-16KL cooled version easily achieves +4°C at maximum speed. For tasks with blood collection tubes at 37°C, the heatable Sigma 2-16KHL is a good choice.



Sigma 2-16P centrifuge

220–240 V, 50/60 Hz (Part No. 10155)
120 V, 50/60 Hz (Part No. 10156)
100 V, 50/60 Hz (Part No. 10157)

Sigma 2-16KL centrifuge

220–240 V, 50/60 Hz (Part No. 10350)
120 V, 60 Hz (Part No. 10351)
100 V, 50/60 Hz (Part No. 10352)

Sigma 2-16KHL centrifuge

220–240 V, 50/60 Hz (Part No. 10353)

Device qualification

Sigma Laborzentrifugen GmbH offers various forms of device qualification. For more information, see Products > Qualification on our website: www.sigma-zentrifugen.de



WEEE-REG-No.
DE 76714077



Sigma 2-16P

- Universal laboratory centrifuge for swing-out and fixed-angle rotors
- Spincontrol Universal
- Backlit Start, Stop, and Lid Open buttons
- Sedimentation in swing-out vials up to 4 x 100 ml or up to 20,000 x g in fixed-angle rotor
- Zero-maintenance brushless drive
- Selectable speed up to 15,000 rpm
- Low-speed operation down to 100 rpm also possible
- Rotor identification prevents overspeed operation
- Stainless-steel centrifuge bowl
- Imbalance switch
- Easy lid opening with gas spring support
- Window in lid for independent speed checking
- Produced in compliance with the latest national and international standards (e.g. EN 61010-2-020)



Sigma 2-16KL

Refrigerated version of the Sigma 2-16P.

Additional features:

- Spincontrol L
- Universal laboratory centrifuge with speed range up to 15,300 rpm
- Rotor cooling also possible at standstill; CFC-free R134a refrigerant
- Assured +4 °C at maximum speed



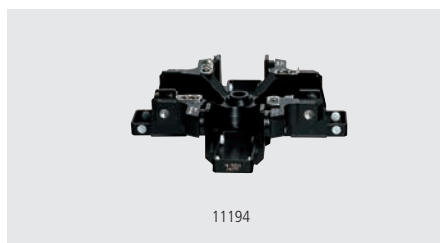
Sigma 2-16KHL

Heatable version of Sigma 2-16KL.

Additional features:

- Maximum rotor temperature +40°C to +60°C, depending on rotor and speed
- All other specifications as for Sigma 2-16KL

Rotors and accessories



			Sigma 2-16P		Sigma 2-16KL Sigma 2-16KHL	
Aluminium rotors		Description	Max. [rpm]	Max. RCF [x g]	Max. [rpm]	Max. RCF [x g]
Fixed-angle rotor*	(Part No. 12104)	12 x 8 x 0.2 ml, PCR	–	–	14,000	21,475
Fixed-angle rotor*	(Part No. 12107)	12 x 8 x 0.2 ml, PCR	12,000	15,777	–	–
Fixed-angle rotor*	(Part No. . 12148)	24 x 1.5–2.0 ml reaction vial	15,000	20,627	15,300	21,460
Fixed-angle rotor*	(Part No. 12133)	30 x 1.5–2.0 ml reaction vial	12,000	16,099	–	–
Fixed-angle rotor*	(Part No. 12132)	30 x 1.5–2.0 ml reaction vial	–	–	14,000	21,913
Fixed-angle rotor*	(Part No. 12141)	10 x 10 ml round bottom tube	13,500	15,485	15,300	19,890
Fixed-angle rotor	(Part No. 12072)	20 x 15 ml Falcon	4,000	2,486	4,000	2,486
Fixed-angle rotor	(Part No. 12073)	30 x 15 ml Falcon	4,000	2,486	4,000	2,486
Fixed-angle rotor*	(Part No. 12139)	6 x 30 mm round bottom tube	13,500	15,893	15,300	20,414
Fixed-angle rotor*	(Part No. 12181)	6 x 50 ml Falcon	10,000	10,621	12,000	15,294
Fixed-angle rotor	(Part No. 12071)	12 x 15 ml Falcon 6 x 50 ml Falcon	4,000	2,254	4,000	2,254
Fixed-angle rotor*	(Part No. 12138)	4 x 85 ml round bottom tube	–	–	9,400	9,484
Fixed-angle rotor*	(Part No. 12180)	12 x 5 ml Eppendorf vial	14,000	17,530	15,000	20,124
Swing-out rotor	(Part No. 11170)		4,500	3,215	5,000	3,969
Cyto rotor	(Part No. 11194)	–	–	–	3,000	1,137
Microtiter plate swing-out rotor	(Part No. 11122)	Max./H 56 mm	3,000	1,218	3,000	1,218
Microtiter plate swing-out rotor	(Part No. 11123)	Max./H 50 mm	4,000	2,129	4,000	2,111
Swing-out rotor	(Part No. 11124)	24 x 1.5–2.0 ml reaction vial	12,500	12,927	14,000	16,215
Microhaematocrit rotor	(Part No. 11409)	24 x ø 1.5 x 75 mm capillary	12,000	14,489	12,000	14,489

*With hermetic aluminium lid.



More on the Web

A PDF document with information about compatible vials and capacities and a link to the interactive product configuration tool are available on the product website:

www.sigma-zentrifugen.de

› Sigma 2-16P

› Sigma 2-16KL

› Sigma 2-16KHL

Specifications

	Sigma 2-16P	Sigma 2-16KL	Sigma 2-16KHL
Power consumption [W]	340	720	720
Maximum capacity [ml]	4 x 100	4 x 100	4 x 100
Maximum speed [rpm]	15,000	15,300	15,300
Minimum speed [rpm]	100	100	100
RFI suppression	EN 61326	EN 61326	EN 61326
Height x width x depth [mm]	300 x 365 x 452	310 x 550 x 570	310 x 550 x 570
Height with open lid [mm]	610	705	705
Weight without rotor [kg]	32	60	60
Maximum kinetic energy [Nm]	7,750	9,962	9,962
Noise level at maximum speed (approximate) with rotor 12148 [dB (A)]	< 67	65	65
Noise level at maximum speed (approximate), rotor 11170 [dB (A)]	–	63	63
Maximum acceleration, rotor 12148 [sec]	33	27	27
Maximum acceleration, rotor 11170 [sec]	36	22	22
Maximum breaking time, rotor 12148 [sec]	27	18	18
Maximum breaking time, rotor 11170 [sec]	20	17	17
Temperature adjustment range [°C]	–	-10 to +40	-10 to +60



(Part No. 17920)





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