

Sigma 3-16L Sigma 3-16KL



Benchtop centrifuge

- ambient
- refrigerated

Intuitive, versatile and pleasantly quiet

The Sigma 3-16L is remarkably easy to use, suitable for a wide variety of swing-out and fixed-angle rotors, and has a robust capacity of 4 x 400 ml.

This premium model with an intuitive user interface (patented one-knob control) and illuminated function buttons has proven its worth in a wide variety of application areas. It is one of the most popular universal bench centrifuges. What's more, the Sigma 3-16KL refrigerated version easily achieves a consistent +4 °C at maximum speed. Many users swear by this universal benchtop centrifuge, including the IVD version.



Sigma 3-16L centrifuge

220–240 V, 50/60 Hz (Part No. 10355)
120 V, 60 Hz (Part No. 10356)
100 V, 50/60 Hz (Part No. 10357)

Sigma 3-16L centrifuge, IVD version

220–240 V, 50/60 Hz (Part No. 10358)
120 V, 60 Hz (Part No. 10359)

Sigma 3-16KL centrifuge

220–240 V, 50/60 Hz (Part No. 10360)
120 V, 60 Hz (Part No. 10361)
100 V, 50/60 Hz (Part No. 10362)

Sigma 3-16KL centrifuge, IVD version

220–240 V, 50/60 Hz (Part No. 10363)
120 V, 60 Hz (Part No. 10364)

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.-Nr.
DE 76714077



Sigma 3-16L

- Universal benchtop centrifuge with speed range up to 15,300 rpm
- Spincontrol L controller
- Compatible with various swing-out and fixed-angle rotors
- Capacity 4 x 400 ml
- Maintenance-free drive
- Magnetic rotor identification
- Stainless-steel centrifuge bowl
- Window in lid for external speed monitoring
- Backlit Start, Stop, and Open Lid buttons
- Wear-free hardware protection
- Unbalance switch
- Motor thermal protection switch
- Easy lid opening with gas spring assist
- Produced in compliance with the latest national and international standards (e.g. EN 61010-2-020)
- IVD version available



Sigma 3-16KL

Refrigerated version of the Sigma 3-16L.

Additional features:

- Universal refrigerated benchtop centrifuge
- Rotor cooling also possible at standstill
- CFC-free R134a refrigerant
- Quick cool program Rapid Temp
- Assured +4 °C at maximum speed with all rotors

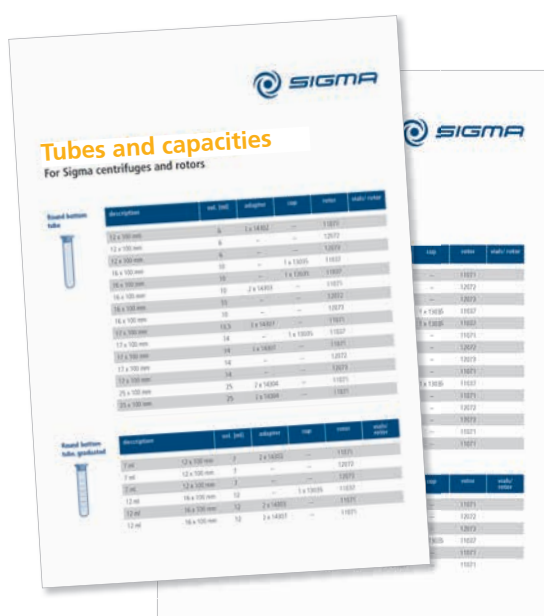


Rotors and accessories



			Sigma 3-16L		Sigma 3-16KL	
Aluminium rotors		Matching accessories	Max. [rpm]	Max. RCF [x g]	Max. [rpm]	Max. RCF [x g]
Biosafe swing-out rotor (Biosafe certificate in connection with bucket cover)	(Part No. 11180)	Round bucket	4,200	3,392	4,500	3,894
		Hexagonal bucket	4,200	3,313	4,500	3,803
		Rectangular bucket	4,200	3,372	4,500	3,871
Swing-out rotor	(Part No. 11133)	Round bucket	5,000	4,332	5,500	5,242
		3 x 15 ml bucket	5,000	4,472	5,500	5,411
Cyto rotor	(Part No. 11224)	–	3,000	1,137	3,000	1,137
Micro titration plate swing-out rotor	(Part No. 11222)	Max. H 56 mm	3,000	1,238	3,000	1,238
Micro titration plate swing-out rotor	(Part No. 11241)	Max. H 60 mm	4,200	2,505	4,200	2,505
Swing-out rotor	(Part No. 11135)	24 x 1.5–2.0 ml reaction vial	12,500	12,927	14,000	16,215
Fixed-angle rotor	(Part No. 12115)	12 x 8 x 0.2 ml PCR	13,000	13,226	14,500	16,454
Fixed-angle rotor	(Part No. 12154)	24 x 1.5–2.0 ml reaction vial	15,300	21,460	15,300	21,460
Fixed-angle rotor	(Part No. 12131)	30 x 1.5–2.0 ml reaction vial	13,200	19,480	14,000	21,913
Fixed-angle rotor	(Part No. 12349)	48 x 1.5–2.0 ml reaction vial	14,000	18,407	15,300	21,984
Fixed-angle rotor	(Part No. 12182)	12 x 5 ml Eppendorf vial	15,990	21,130	15,300	21,984
Fixed-angle rotor	(Part No. 12111)	10 x 10 ml round bottom	15,300	19,860	15,300	19,890
Fixed-angle rotor	(Part No. 12157)	20 x 10 ml round bottom	9,000	8,875	10,000	10,956
Fixed-angle rotor	(Part No. 12171)	12 x 15 ml falcon vial	9,000	8,965	9,500	9,989
Fixed-angle rotor	(Part No. 12158)	6 x 30 ml round bottom	15,300	20,675	15,300	20,675
Fixed-angle rotor	(Part No. 19776)	6 x 50 ml falcon vial	9,000	8,422	9,500	9,380
Fixed-angle rotor	(Part No. 12150)	6 x 50 ml round bottom vial	10,000	9,391	11,000	11,363
Fixed-angle rotor	(Part No. 12156)	8 x 50 ml round bottom vial	9,000	8,694	10,000	10,733
Fixed-angle rotor	(Part No. 12155)	4 x 85 ml round bottom vial	10,000	10,174	10,000	10,174
Fixed-angle rotor	(Part No. 12159)	6 x 85 ml round bottom vial	8,000	7,012	8,000	7,012

All fixed-angle rotors include a 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 3-16L

› Sigma 3-16KL

Specifications

	Sigma 3-16L	Sigma 3-16KL
Power consumption [W]	500	1,010
Maximum capacity [ml]	4 x 400	4 x 400
Maximum speed [rpm]	15,300	15,300
Minimum speed [rpm]	100	100
Height x width x depth [mm]	355 x 460 x 600	355 x 630 x 600
Height with open lid [mm]	770	785
RFI suppression	EN 61326	EN 61326
Weight without rotor [kg]	48	78
Maximum kinetic energy [Nm]	9,530	9,970
Noise level at maximum speed (approximate) Rotor 12154 at 15,300 rpm [dB (A)]	60	66
Noise level at maximum speed (approximate) Rotor 11132 at 5,000 rpm [dB (A)]	66	60
Maximum acceleration, rotor 12154 [s]	29	28
Maximum acceleration, rotor 11132 [sec]	22	20
Maximum deceleration, rotor 12154 [s]	46	53
Maximum deceleration, rotor 11132 [s]	11	12
Temperature adjustment range [°C]	–	-10 to +40



(Part No. 17927)



(Part No. 17926)





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