

Sigma 8KS



Floor standing
centrifuge

• refrigerated

More capacity for medical and research tasks

The Sigma 8KS floor standing centrifuge is a real powerhouse with a capacity of up to 6 x 1 litre in a fixed-angle rotor or 12 x 1 litre, 6 x 1.5 litre or 12 blood pouches in a swing-out rotor – ideal for production environments.

The motorised lid lock make the compact, well refrigerated centrifuge easy to operate. This incredibly high-performance centrifuge has a low loading height, is pleasantly quiet in operation, and is remarkably energy efficient. The Sigma 8KS is ideal for blood banks, medical and research applications and highly versatile in these areas.



Sigma 8KS centrifuge

3 x 400 V, 60 Hz (Part No. 10620)
 3 x 400 V, 50 Hz (Part No. 10621)
 3 x 220 V, 60 Hz (Part No. 10622)

Sigma 8KS centrifuge, water-cooled chiller

3 x 400 V, 50 Hz (Part No. 10623)

Device qualification

Sigma Laborzentrifugen GmbH offers various forms of device qualification.

For more information, see Products >
 Qualification on our website:
www.sigma-zentrifugen.de



Sigma 8KS

- Compact refrigerated floor standing centrifuge
- Universal device for blood banks, medicine and research
- Up to 6 x 1 l in fixed-angle rotor or 12 x 1 l, 6 x 1.5 l or 12 blood pouches in swing-out rotor
- Rugged design, ideal for continuous use
- Ergonomic 88 cm loading height
- Maintenance-free drive, high imbalance tolerance (up to approximately 80 g)
- Magnetic rotor identification
- R404a refrigerant
- Assured +4 °C at maximum speed with all rotors
- Corrosion-resistant stainless steel bowl
- Two motorised lid locks
- Centrifuge lid view window for external speed monitoring
- With transport castors and adjustable feet
- Compliant with all international centrifuge standards e.g. EN 61010-2-020

Options:

- RS 232 interface
- Inert gas blanketing with analysis of oxygen concentration in exhaust gas; power shut-off if limit exceeded

Rotors and accessories



12505



12510



11805



11806

		Sigma 8KS		
Aluminium rotors		Description	Max. [rpm]	Max. RCF [x g]
Fixed-angle rotor	(Part no. 12505)	6 x 500 ml	10,500	20,461
Fixed-angle rotor	(Part no. 12510)	6 x 1,000 ml	7,000	11,285
Swing-out rotor	(Part no. 11805)	6 x round bucket	5,100	8,578
		6 x microtiter plates	5,100	7,328
		6 x blood pouch bucket	4,100	5,394
Swing-out rotor	(Part no. 11806)	6 x round bucket	3,700	4,515
		6 x microtiter plates	3,700	3,857
		6 x blood pouch bucket	3,700	4,393
		6 x dual bucket, 2 x 1 l	3,300	3,579



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 8KS

Specifications

	Sigma 8KS
Power consumption [kW]	6.5
Maximum capacity [l]	12
Maximum speed [rpm]	10,500
Minimum speed [rpm]	100
Height x width x depth [mm]	980 x 810 x 910
Height with open lid [mm]	1,690
RFI suppression	EN 61326
Weight without rotor [kg]	420
Maximum kinetic energy [kJ]	279
Noise level at maximum speed (approximate)	
• Rotor 11805 [dB (A)]	69
• Rotor 12505 [dB (A)]	73
Max. acceleration	
• Rotor 11805 [s]	81
• Rotor 12505 [s]	80
Max. deceleration	
• Rotor 11805 [s]	59
• Rotor 12505 [s]	75
Temperature adjustment range [°C]	-20 to +40
Minimum rotor temperature [°C]	< 4



Setting standards in control technology

Unique features, diverse application areas

The Spincontrol S sets standards in laboratory centrifuge control technology. This high-performance controller offers versatile and unique options for a wide range of application areas. The patented controller only needs three buttons: Start, Stop and Open Lid. All parameters – speed, RCF, temperature and so on – can be set or adjusted with the unique central turn/push knob, and in addition to manual settings, previously entered programs can be selected using shortcuts. All parameters can be viewed in a separate window. The program status display with progress bars, easily readable at a distance, is also very practical.

The uncluttered display constantly shows all setpoint and actual values. Users are enthusiastic about the countless features, including a timer from the setpoint speed point, 60 program memories, user-selectable program names, password protection for programs, visual standstill indication, rotor cycle counter, adjustable start delay, and even more. This highly flexible system helps you meet the requirements of today's and tomorrow's laboratory tasks.

Sigma's premium controller supports internal quality management functions as well as external communication with a laboratory information management system (LIMS). In this way, Spincontrol S facilitates traceability and professional reporting.



More on the Web!
View our video to learn more about Spincontrol S. Simply scan the QR code or visit our centrifuge products website:

www.sigma-zentrifugen.de
› Sigma 8KS

Display	TFT
Message window	+
Constant display of setpoints and actual values	+
Languages	DE, GB, FRA, ES, PRT, SWE
Timer (s; h:min)	10 – 99:59
Timer tracks time after setpoint speed is reached; switchable	+, +
Time increment [s]	60; 1
Intermittent operation	+
Continuous operation	+
Speed increment [rpm]	10; 1
RCF increment [x g]	10; 1
Temperature increment [°C]	1
Standstill cooling; switchable	+, +
Quick cooling program (RapidTemp)	+
Start lockout with excessive actual temperature deviation; adjustable tolerance	+
Programs	60
User-definable program names	+
Program list, preview of all parameters	+, +
Linear acceleration curves	10
Quadratic acceleration curves	10
User-definable acceleration curves	10
Linear braking curves	10
Quadratic braking curves	10
User-definable braking curves	10
Free run-out	+
Automatic lid opening, switchable	+, +
Audible signal, switchable	+, +
Visual standstill indication	+
Rotor cycle monitoring	+
Rotor end-of-life warning	+
Automatic lid unlocking at end of run, switchable	+, +
Configurable for liquids > 1.2 g/cm ³	+
Start delay	+
Lockable controller	+
Microprocessor control	+





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

www.sigma-zentrifugen.de