

Sigma 2-7



Laboratory
centrifuge

High performance with a new design

The table top centrifuge Sigma 2-7 has been newly designed and is particularly devised for small labs seeking a reliable instrument, which features flexibility for various applications, ease-of-use and quiet operation. Based on the experiences and desires of our customers a number of innovative new features are now available. The key innovations include the run display – an LED shines blue light from the bottom of the instrument onto the desktop surface, and thus gives a clear “in use” signal to operators in the lab during each run.

Another innovative feature has been implemented specifically for blood diagnostics in the doctor’s lab – the tube clotting time, e.g. for use with clot activator serum tubes, can be programmed. This

results in an optimized workflow, since the centrifuge start can be followed by the user-definable clot time, and then centrifugation will start automatically; a buzzer and opening of the motorized lid lock signals completion of centrifugation. In total 10 programs are available for convenient use of the instrument according to various tube types and applications.

Air ventilation within the instrument has been optimized for both, extraordinarily quiet operation and minimum temperature increase of specimens even at maximum capacity and throughput. Other impressive technical features such as the stainless steel bowl, an imbalance switch, and the modular swing-out rotor for various bucket types round up the characteristics of this versatile centrifuge.

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- run display with blue LEDs
- clearly represented 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)
- programmable clot time for serum tubes
- stainless steel bowl
- imbalance sensor
- emergency lid lock release
- window in the lid for external speed control
- overspeed controller
- according to EN 61010-2-020
- RoHS conform



Sigma 2-7
Laboratory centrifuge, 100–240 V, 50/60 Hz (Part No. 10226)

Rotors and accessories

Rotors

- Nr. 11071** swing-out rotor, 4 place, for buckets no. 13296, 13299
- Nr. 11037** swing-out rotor, 2 place, for buckets no. 13035
- Nr. 12072** angle rotor 20 x 15 ml complete, incl. 10 sets buckets no. 13011, for tubes Ø 17 x up to 120 mm, monovettes and culture tubes
- Nr. 12073** like no. 12072, but 30 x 15 ml



11071



11037 + 13035



12072



13299



13296



14300



14302



14305



14309

Buckets and carriers [1 set = 2 pieces]

- Nr. 13299** round bucket, for round carriers no. 14299–14310
- Nr. 13296** multiple carrier for 6 tubes, 5–15 ml round bottom, for monovettes up to 105 mm length
- Nr. 13035** multiple carrier for 4 tubes, 5–15 ml round bottom, for monovettes up to 105 mm length

Adapters for bucket no. 13299 [1 set = 2 pieces]

- Nr. 14299** for culture tube 50 ml
- Nr. 14300** for 2 culture tubes 15 ml, without cap no. 17299
- Nr. 14301** for 4 reaction vials 1.5/2.0 ml
- Nr. 14302** for 5 round bottom tubes, approx. 7 ml, max. Ø 12.5/15 x 45–105 mm
- Nr. 14303** for 4 round bottom tubes 10–15 ml, max. Ø 16.2/17.5 x 80–110 mm
- Nr. 14304** for round bottom tube 25–30 ml, max. Ø 25.3/30 x 70–105 mm
- Nr. 14305** for round bottom tube 50 ml, max. Ø 35/38 x 70–105 mm
- Nr. 14306** for 4 round bottom tubes 5–7 ml, max. Ø 13.5/17.5 x 70–110 mm
- Nr. 14307** for 3 round bottom tubes approx. 15 ml, max. Ø 17.3/19 x 80–110 mm
- Nr. 14308** for tube 30 ml, flat bottom or skirt, max. Ø 25/31 x 65–95 mm
- Nr. 14309** for 3 reaction caps 5 ml
- Nr. 14310** for approx. 50 ml with skirt, max. Ø 29.4/36 x 90–120 mm
- Nr. 17299** round polysulfone sealing cap

Technical data

Power consumption [W] 100–240 V	210	Max. acceleration (Rotor 11071 and bucket 13299) [sec]	12
Max. capacity [ml]	30 x 15, 4 x 100	Min. deceleration (Rotor 11071 and bucket 13299) [sec]	12
Max. speed [min ⁻¹]	4,000	Timer	10 sec – 99 min 59 sec
Min. speed [min ⁻¹]	100	Time increments [sec]	1
Max. RCF [xg]		Continuous	+
▪ Rotor 11071 + bucket 13299	2,540	Short run	+
▪ Rotor 11071 + bucket 13296	2,379	Speed increments [rpm]	100
▪ Rotor 11037 + bucket 13035	2,379	RCF increments [xg]	10
▪ Rotoren 12072, 12073	2,486	Display speed or g-force	+
Interference suppression	EN 61326	Acceleration/deceleration curve	Fast, soft
Height x Width x Depth [mm]	293 x 378 x 535	Programs	10
Weight without rotor [kg]	23	Microprocessor controlled	+
Kinetic Energy max. [Nm]	1,821		
Noise level (Rotor 11071, bucket 13299), approx.	55 dB (A)		



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