Eppendorf Certificate

Certificate of Quality

Eppendorf Centrifuges MiniSpin®, MiniSpin® plus, 5418, 5418 R, 5424, 5424 R, 5425, 5425 R, 5427 R*, 5430, 5430 R, 5702, 5702 R, 5702 RH, 5804, 5804 R, 5810, 5810 R, 5910 R, 5910 Ri and 5920 R

The Eppendorf Quality Management System is certified in accordance with the international standards ISO 9001, ISO 13485 and ISO 14001.

Eppendorf Centrifuges are tested in accordance with current manufacturing specifications and safety requirements.

Testing with respect to compliance within the defined limitations and tolerances includes assessment of:

> rotational speed,
> run time,
> cooling performance, if applicable.

For Operational Qualification by certified service personnel, documentation including the defined limitations and tolerances is available and can be provided upon request.

Hamburg, March 2023

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Limitations and tolerances

Eppendorf Centrifuge	Rotor	Rotational Speed	Temperature	Run Time
MiniSpin®	F-45-12-11	13,400 rpm ±402 rpm	ΔT ≤ 14 K	300 s ± 2 s
MiniSpin® plus	F-45-12-11	14,500 rpm ±435 rpm	ΔT ≤ 14 K	300 s ± 2 s
5418	FA-45-18-11	14,000 rpm ±100 rpm	ΔT ≤ 12 K	300 s ± 2 s
5418 R	FA-45-18-11	14,000 rpm ±100 rpm	4 °C ± 2 K	300 s ± 2 s
5424 (100 V / 230 V)	FA-45-24-11	14,680 rpm ±100 rpm	ΔT ≤ 18 K	300 s ± 2 s
5424 (120 V)	FA-45-24-11	15,000 rpm ±100 rpm	ΔT ≤ 18 K	300 s ± 2 s
5424 R	FA-45-24-11	14,680 rpm ±100 rpm	4 °C ± 2 K	300 s ± 2 s
5425	FA-24x2	15,060 rpm ±40 rpm	ΔT ≤ 17 K	300 s ± 3 s
5425 R	FA-24x2	15,060 rpm ±40 rpm	4 °C ± 2 K	300 s ± 2 s
5427 R*	F-45-48-11	14,000 rpm ±50 rpm	4 °C ± 2 K	300 s ± 2 s
5427 R*	F-45-30-11	14,000 rpm ±50 rpm	4 °C ± 2 K	300 s ± 2 s
5430	FA-45-30-11	14,000 rpm ±100 rpm	ΔT ≤ 14 K	300 s ± 2 s
5430 R	FA-45-30-11	14,000 rpm ±100 rpm	4 °C ± 2 K	300 s ± 2 s
5702	F-35-30-17	4,400 rpm ±44 rpm	ΔT ≤ 12 K	300 s ± 2 s
5702 R	A-4-38	4,400 rpm ±44 rpm	4 °C ± 2 K@4400 rpm	300 s ± 2 s
5702 RH	A-4-38	4,400 rpm ±44 rpm	4 °C ± 2 K@4400 rpm 37 °C ± 2 K@4400 rpm	300 s ± 2 s
5804	A-4-44	5,000 rpm ±50 rpm	ΔT ≤ 13 K	300 s ± 2 s
5804 R	A-4-44	5,000 rpm ±50 rpm	7 °C ± 2 K	300 s ± 2 s
5810	A-4-62	4,000 rpm ±40 rpm	ΔT ≤ 13 K	300 s ± 2 s
5810	F-34-6-38	12,000 rpm ±40 rpm	ΔT ≤ 16 K	300 s ± 2 s
5810	A-4-81	4,000 rpm ±40 rpm	ΔT ≤ 13 K	300 s ± 2 s
5810 R	A-4-62	4,000 rpm ±40 rpm	6 °C ± 2 K	300 s ± 2 s
5810 R	F-34-6-38	12,000 rpm ±40 rpm	13 °C ± 2 K	300 s ± 2 s
5810 R	A-4-81	4,000 rpm ±40 rpm	8 °C ± 2 K	300 s ± 2 s
5910 R	S4xUniversal	4,500 rpm ±40 rpm	4 °C ± 2 K	300 s ± 3 s
5910 Ri	S4xUniversal	4,500 rpm ±40 rpm	4 °C ± 2 K	300 s ± 3 s
5920 R	S4xUniversal-Large	4,500 rpm ±40 rpm	4 °C ± 2 K	300 s ± 3 s

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*Valid for Centrifuge 5427 R with R134a and R290, respectively.

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