

Technical dataMiniSpin®/MiniSpin® plus
English (EN)**9 Technical data****9.1 Power supply**

	MiniSpin	MiniSpin plus
Mains/power connection	230 V, 50 Hz – 60 Hz 120 V, 50 Hz – 60 Hz 100 V, 50 Hz – 60 Hz	230 V, 50 Hz – 60 Hz 120 V, 50 Hz – 60 Hz 100 V, 50 Hz – 60 Hz
Power consumption	60 W	68 W
Current consumption	0.45 A (230 V) 0.9 A (120 V) 0.9 A (100 V)	0.6 A (230 V) 1.2 A (120 V) 1.2 A (100 V)
Overvoltage category	II	
EMC: Interference emission. (radio interference)	EN 61326-1 – Class B (230 V) EN 61326-1 – Class A (120 V), FCC15 – Class B (120 V) EN 61326-1 – Class A (100 V), FCC15 – Class B (100 V)	
EMC: Noise immunity	EN 61326 - category B	
Fuses	1.6 AT (230 V) 3.15 AT (120 V) 3.15 AT (100 V)	
Degree of pollution	2	

9.2 Weight/dimensions

	MiniSpin	MiniSpin plus
Dimensions	Width: 22.5 cm (8.86 in) Depth: 24.0 cm (9.45 in) Height: 12.0 cm (4.72 in)	
Weight without rotor	3.7 kg (8.16 lb)	

9.3 Noise level

The noise level was measured according to (DIN EN ISO 3745) frontally in a sound measuring room with accuracy class 1 at a distance of 1 m from the device and at lab bench height.

	MiniSpin	MiniSpin plus
Noise level	< 49 dB(A)	< 52 dB(A)

9.4 Ambient conditions

Ambience	Only for use indoors.
Ambient temperature	10 °C – 40 °C
Relative humidity	10 % – 75 %, non-condensing.
Atmospheric pressure	79.5 kPa – 106 kPa

9.5 Application parameters

	MiniSpin	MiniSpin plus
Cycle time	15 s – 30 min	<ul style="list-style-type: none"> • 15 s – 99 min • unlimited (∞)
		<ul style="list-style-type: none"> • 15 s – 1 min: can be set in increments of 15 s • from 1 min: can be set in increments of 1 min
Rotational speed	800 rpm – 13400 rpm	800 rpm – 14500 rpm
	can be set in increments of 100 rpm Tolerance at maximum rotational speed: 3 %	
Relative centrifugal force	100 × <i>g</i> – 12100 × <i>g</i>	100 × <i>g</i> – 14100 × <i>g</i> can be set in increments of 100 × <i>g</i>
Maximum load	12 × 2.0 mL	
Maximum kinetic energy	728 Nm	852 Nm
Permitted density of the material for centrifuging (at maximum <i>g</i> -force (rcf) and/or speed (rpm) and maximum load)	1.2 g/mL	
Tolerance at maximum rotational speed	13 s	
Deceleration time from maximum rotational speed	12 s	

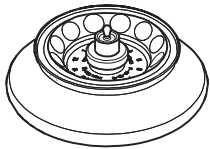
9.6 Rotors



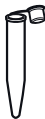



i Eppendorf centrifuges may only be operated with rotors that are intended for use with the centrifuge.




► Only use rotors that are intended for use with the centrifuge.

9.6.1 Rotor F-45-12-11

Fixed-angle rotor for 12 tubes


	Maximum <i>g</i> -force:	MiniSpin MiniSpin plus	12 100 × <i>g</i> 14 100 × <i>g</i>
	Maximum speed:	MiniSpin MiniSpin plus	13 400 rpm 14 500 rpm
	Maximum load (tubes and contents):	12 × 4 g	


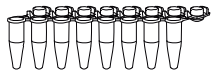
Tube	Tube Capacity Tubes per adapter/rotor	Adapter Order no. (international)	Bottom shape Tube diameter	Maximum <i>g</i> -force: Maximum speed: Radius
	PCR tube 0.2 mL 1/12	 5425 715.005	conical Ø 11 mm	MiniSpin MiniSpin plus MiniSpin MiniSpin plus 7 830 × <i>g</i> 9 170 × <i>g</i> 13 400 rpm 14 500 rpm 3.9 cm
	Tube 0.4 mL 1/12	 5425 717.008	conical Ø 6 mm	MiniSpin MiniSpin plus MiniSpin MiniSpin plus 12 100 × <i>g</i> 14 100 × <i>g</i> 13 400 rpm 14 500 rpm 6.0 cm
	Tube 0.5 mL 1/12	 5425 716.001	conical Ø 6 mm	MiniSpin MiniSpin plus MiniSpin MiniSpin plus 9 840 × <i>g</i> 11 520 × <i>g</i> 13 400 rpm 14 500 rpm 4.9 cm

Tube	Tube Capacity Tubes per adapter/rotor	Adapter Order no. (international)	Bottom shape Tube diameter	Maximum <i>g</i> -force: Maximum speed: Radius	
	Microtainers 0.6 mL 1/12	 5425 716.001	open Ø 8 mm	MiniSpin MiniSpin plus MiniSpin MiniSpin plus	12 100 × <i>g</i> 14 100 × <i>g</i> 13 400 rpm 14 500 rpm 6.0 cm
	Tube 1.5 ml/2.0 mL -/12		Ø 11 mm	MiniSpin MiniSpin plus MiniSpin MiniSpin plus	12 100 × <i>g</i> 14 100 × <i>g</i> 13 400 rpm 14 500 rpm 6.0 cm

9.6.2 Rotor F-55-16-5-PCR

Fixed-angle rotor for 16 PCR tubes

	Maximum <i>g</i> -force:	MiniSpin MiniSpin plus	9840 × <i>g</i> 11520 × <i>g</i>
	Maximum speed:	MiniSpin MiniSpin plus	13400 rpm 14500 rpm
	Maximum load (tubes and contents):		16 × 0.43 g (2 × 3.5 g)

Tubes	Tube Capacity Tubes per adapter/rotor	Bottom shape Tube diameter	Maximum <i>g</i> -force: Maximum speed: Centrifugation radius
	0.2 mL -/16	conical Ø 6 mm	MiniSpin MiniSpin plus MiniSpin MiniSpin plus 9840 × <i>g</i> 11520 × <i>g</i> 13400 rpm 14500 rpm 4.9 cm
	PCR strips 0.2 mL -/2 × 8	conical Ø 6 mm	MiniSpin MiniSpin plus MiniSpin MiniSpin plus 9840 × <i>g</i> 11520 × <i>g</i> 13400 rpm 14500 rpm 4.9 cm