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	70 W	85 W
Current consumption	0.45 A (230 V) 0.9 A (120 V) 1.0 A (100 V)	0.6 A (230 V) 1.2 A (120 V) 1.3 A (100 V)
Overvoltage category	II	
EMC: Noise emission (radio interference)	230 V – EN 61326-1 / EN 55011 – Class B 120 V – CFR 47 FCC Part 15 – Class B 100 V – EN 61326-1 / EN 55011 – Class B	
EMC: Noise immunity	EN 61326 – 1 – basic electromagnetic environment	
Pollution degree	2	

9.2 Ambient conditions

Environment	For indoor use only. The surroundings must not be moist.
Ambient temperature	10 °C – 40 °C
Relative humidity	10 % – 75 %, non-condensing.
Atmospheric pressure	79,5 kPa – 106 kPa

9.3 Weight/dimensions

	MiniSpin	MiniSpin plus
Dimensions	Width: 225 mm Depth: 230 mm Height: 130 mm	
Weight without rotor	3.7 kg	
Rotor weights:		
F-45-12-11	450 g	
F-55-16-5-PCR	210 g	

9.4 Noise level

The noise level was measured according to (DIN EN ISO 3745) frontally in a sound measuring chamber (anechoic room) of 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)

9.5 Application parameters

	MiniSpin	**MiniSpin plus**
Run time	15 s – 30 min	• 15 s – 99 min • unlimited (*oo*)
	• 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 × *g* – 12100 × *g*	100 × *g* – 14100 × *g* can be set in increments of 100 × *g*
Maximum load	12 × 2,0 mL	
Maximum kinetic energy	870J	1020J
Permitted density of the material for centrifuging (at maximum *g*-force (rcf) or rotational speed (rpm) and maximum load)	1.2 g/mL	
Acceleration time at maximum rotational speed	≤18 s	
Deceleration time at maximum rotational speed	≤14 s	
Compulsory testing in Germany	No	