

9 Technical data

9.1 Power supply

Centrifuge 5427 R

Mains connection	230 V, 50 Hz –60 Hz 120 V, 50 Hz –60 Hz 100 V, 50 Hz –60 Hz
Current consumption	2.4 A (230 V) 4.6 A (120 V) 5.5 A (100 V)
Power consumption	Maximum 550 W
EMC: interference emission (radio interference)	EN 61326 – Class B (230 V) FCC15 – Class A (120 V/100 V)
EMC: noise immunity	EN 61326
Overvoltage category	II
Fuses	4 A (230 V) 8 A (120 V) 10 A (100 V)
Degree of pollution	2

9.2 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

9.3 Weight/dimensions

Dimensions	Width: 31.9 cm (12.6 in) Depth: 54.0 cm (21.3 in) Height: 25.4 cm (10.2 in)
Weight without rotor	30.0 kg (66.14 lb)
Noise level	< 56 dB(A)*

* The noise level was measured head-on, according to DIN EN ISO 3745, in an acoustic chamber with accuracy class 1, at a distance of 1 m to the device and at the height of the lab bench.

9.4 Application parameters

Run time	10 s – 9:59 h, infinite (∞), • 10 s – 2 min: can be set in increments of 10 s • 2 min – 10 min: can be set in increments of 30 s • 10 min – 9:59 h: can be set in increments of 1 min
Temperature	-11 °C – 40 °C
Relative centrifugal force	$1 \times g$ – $25\,001 \times g$ can be set in increments of $50 \times g$
Speed	100 rpm – 16 220 rpm can be set in increments of 50 rpm
Maximum load	48 tube with 2.0 mL volume
Maximum kinetic energy	9920 Nm
Compulsory test log book (in Germany)	No
Permissible density of the material for centrifuging (at maximum g -force (rcf) or speed (rpm) and maximum load)	1.2 g/mL