

10 Technical data

10.1 Power supply

10.1.1 Centrifuge 5430

Mains power connection	230 V, 50 to 60 Hz 120 V, 50 to 60 Hz 100 V, 50 to 60 Hz
Current consumption:	3 A (230 V) 6 A (120 V) 7 A (100 V)
Power consumption:	max. 475 W
EMC: Interference emission (radio interference)	EN 61326 - category B
EMC: Noise immunity	EN 61326 - performance characteristic B
Overvoltage category:	II
Fuses:	4.0 AT (230 V) 8.0 AT (120 V / 100 V)

10.1.2 Centrifuge 5430 R

Mains power connection	230 V, 50 to 60 Hz 120 V, 50 to 60 Hz 100 V, 50 to 60 Hz
Current consumption:	6 A (230 V) 12 A (120 V / 100 V)
Power consumption:	max. 1050 W
EMC: Interference emission (radio interference)	EN 61326 - category B
EMC: Noise immunity	EN 61326 - performance characteristic B
Overvoltage category:	II
Fuses:	Thermal overcurrent protection switch 7 A (230 V) Thermal overcurrent protection switch 15 A (120 V / 100 V)

10.2 Ambient conditions

Environment:	For indoor use only.
Ambient temperature:	Centrifuge 5430: 4 up to 40 °C Centrifuge 5430 R: 10 up to 40 °C
Max. relative humidity:	75 %, non-condensing humidity
Atmospheric pressure:	Use up to an altitude of 2000 m above MSL.
Degree of contamination:	2

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10.3 Weight / dimensions

10.3.1 Centrifuge 5430

Dimensions:	Width: 335 mm (11.2 in.)
	Depth: 415 mm (16.3 in.)
	Height: 250 mm (9.84 in.)
Weight excl. rotor:	29 kg (63.9 lbs.)
Noise level:	< 67 dB(A)

10.3.2 Centrifuge 5430 R

Dimensions:	Width: 380 mm (15.0 in.)
	Depth: 640 mm (25.2 in.)
	Height: 296 mm (11.7 in.)
Weight excl. rotor:	56 kg (123.5 lbs.)
Noise level:	< 63 dB(A)

10.4 Application parameters

Runtime:	30 s to 99:59 h, infinite (∞), adjustable up to 10 min. in 0.5 min. increments, thereafter in 1 min. increments.
Temperature (only 5430 R):	-11 °C to 40 °C
Relative centrifugal force (rcf):	1 to 30.130 x g, adjustable up to 3.000 x g in 10 x g increments, thereafter in 100 x g increments.
Speed:	100 to 17.500 rpm, adjustable up to 5.000 rpm in 10 rpm increments, thereafter in 100 rpm increments.
Max. load:	30 micro test tubes of 2.0 ml or 6 Falcon test tubes of 50 ml.
Max. kinetic energy:	10,000 Nm
Test log mandatory:	No
Permitted density of the centrifugate (at max. g-force/rpm and max. load):	1.2 g/ml

Start and stop times according to DIN 58 970

Rotor	Without soft ramp	With soft ramp (SOFT)
FA-45-30-11,	14 s / 15 s	60 s / 65 s
F-45-30-11	14 s / 15 s	60 s / 65 s
FA-45-24-11-HS	21 s / 16 s	60 s / 65 s
FA-45-24-11-Kit	14 s / 16 s	68 s / 90 s
F-45-64-5-PCR	12 s / 15 s	60 s / 65 s
F-45-18-17-Cryo	8 s / 11 s	67 s / 85 s
F-35-6-30	23 s / 23 s	60 s / 67 s
A-2-MTP	17 s / 21 s	62 s / 67 s

These values were calculated for 230 V and 120 V at 23 °C.