

## 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

## 10 Technical data

### 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 ( $\infty$ ), 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.