

## Specifications

Only values with tolerances or limits are guaranteed data. Values without tolerances are informative data, without guarantee.

**Table 1.3** Specifications

Specification		J-15 Ventilated	J-15R Refrigerated
<b>Speed</b>	Set Speed	200 to 10,200 RPM in 10 RPM increments	200 to 10,200 RPM in 10 RPM increments
	Set RCF	10 to 11,420 $\times g$ in 10 $\times g$ increments	10 to 11,420 $\times g$ in 10 $\times g$ increments
	Speed Display	actual rotor speed in 10 RPM increments or actual RCF in 10 $\times g$ increments	
	Speed Accuracy	$\pm 25$ rpm of Set Speed from 200 to 10,200 RPM	
<b>Time</b>	Set Time	1 minute to 99 hours 59 minutes or continuous (hold)	
	Time Display	Timed Run: indicates run time remaining (HH:MM:SS) Hold Run: indicates elapsed time (HH:MM:SS) Pulse Run: indicates elapsed time (HH:MM:SS)	
<b>Temperature</b>	Set Temperature	N/A	-10 to +40°C in 1°C increments <sup>a</sup>
	Temperature Display		Chamber temperature in 1°C increments
	Temperature Accuracy <sup>a</sup>		$\pm 2^\circ\text{C}$ of Chamber temperature (after equilibration); applies to 4 to 25°C temperature range
	Over Temperature Shutdown <sup>b</sup>	>55°C	>55°C
<b>Acceleration</b>	Acceleration Profiles	10 acceleration rates, including maximum torque	
<b>Deceleration</b>	Deceleration Profiles	11 deceleration rates, including maximum torque and no braking	
<b>Dimensions</b>	Width	55.6 cm (21.9 in.)	75.6 cm (29.8 in)
	Depth	74.9 cm (29.5 in)	70.3 cm (27.7 in)
	Height	36.8 cm (14.5 in)	36.8 cm (14.5 in)
<b>Weight</b>	Weight, not including rotor	93 kg (205 lbs)	120 kg (265 lbs)
<b>Ventilation clearances<sup>c</sup></b>	Sides	7.6 cm (3.0 in.)	
	Rear	7.6 cm (3.0 in.)	
<b>Finishes</b>	Top Surface	Painted steel	
	Front Surface	Uncoated plastic	
	Door	Painted Aluminum and plastic	

**Table 1.3** Specifications (*Continued*)

Specification		J-15 Ventilated	J-15R Refrigerated
<b>Electrical</b>	Electrical Requirements	100 VAC, 12A, 50/60 Hz 120 VAC, 10A, 50/60 Hz 200-230 VAC, 6A, 50/60-Hz	120 VAC, 12A, 60 Hz 200-230 VAC, 8A, 50 Hz 208-230 VAC, 9A, 60 Hz
	Electrical Supply	Class 1	
	Installation (overvoltage) category	II	
<b>Environmental</b>	Noise output (1 m in front of instrument, 1.5 m above the floor with JA-10.100 rotor at 10,200 rpm)	61 dBA	58 dBA
	Ambient Temperature Range	10 to 31°C	10 to 35°C
	Humidity	80% non-condensing	80% non-condensing
	Refrigerant	N/A	R452A
	Maximum heat dissipation into room under steady-state conditions	4095 Btu/h (1.2kW)	120V: 4913 Btu/h (1.44kW) 200-230V: 6551 Btu/h (1.92 kW)
	Pollution degree	2 <sup>d</sup>	
	Altitude	up to 2000 meters	

- a. Display Temperature vs. Chamber Temperature: To reach temperatures above ambient, the centrifuge is dependent on the frictional heat generated inside the chamber during operation. At low run speeds or low ambient temperatures, the centrifuge may not be able to achieve some higher temperatures. At high run speeds or high ambient temperatures, the centrifuge may not be able to achieve some lower temperatures.
- b. If the system reaches this temperature, it will issue a diagnostic and shut down using maximum brake.
- c. When operating the J-15 Centrifuge, maintain a 30 cm (12 in.) clearance envelope around the centrifuge under the following circumstances:
  - 1) Run duration exceeds 60 minutes or 2) Ambient temperature exceeds 25°C.
- d. Normally only nonconductive pollution occurs; occasionally however, a temporary conductivity caused by condensation must be expected.