Section 4: SPECIFICATIONS

This section contains centrifuge specifications and rotor information for the SORVALL* RC-5B PLUS Superspeed Refrigerated Centrifuge.

NOTE Centrifuge specifications may vary depending on the rotor being used.

4-1. Centrifuge Specifications

Run Speed ¹	
Speed Selection Range (rpm)	500 to 21 000
Speed Control Accuracy	±1% or 100 rpm, whichever is
	greater
Maximum Relative Centrifugal Force	
(using the F-20/MICRO Rotor)	51 070 g
Run Temperature	
Temperature Selection Range	-20 to +40°C
Temperature Control Range	-15 to +30°C ^{2,3}
Temperature Control Accuracy	±1°C3,4
Run Time Selection Range	0 to 120 minutes
	or Hold
Ambient Temperature Range	. +15 to +38°C³
Mass (Weight)	. 308 kg (680 lb)
Dimensions	
Width	. 76 cm (30 in)
Height to top of control console	
Depth	. 99 cm (39 in)
Electrical Requirements	
Input Power (single phase, 30 A)	. 240 V, 50 Hz
	230 V, 60 Hz
	220 V, 50 Hz
	208 V, 60 Hz
	200 V, 60 Hz
	(continued on next page)

¹ Speed in revolutions per minute (rpm) is related to angular velocity, ω , according to the following: $\omega = (\text{rpm}) \left(\frac{2\pi}{60} \right) = (\text{rpm}) (0.10472)$

Where $\omega = \text{rad/s}$. All further references in this manual to speed will be designated as rpm.

2 May vary at very low speeds (below approximately 2000 rpm).

4 After the centrifuge system has reached equilibrium.

³ The centrifuge will operate at ambient temperatures up to 38°C, but refrigeration system performance may be less than optimal above 25°C.

4-1. Centrifuge Specifications (continued)

Input Power (polyphase, 30A)	220V, 50Hz
Receptacle	NEMA 6-30R
(for NEMA 6-30P grounded plug the	at is supplied)
Maximum Noise Level	<62 dB1
Heat Output	4.8 kW ²
Assembly and a second s	(16 500 Btu/h2)

¹ For the SS-34 rotor at 20 000 rpm.
2 For the SS-34 rotor spinning 20 000 rpm at 4°C, after it has reached equilibrium. Other rotors, speeds, and temperatures cause the heat output