

Specifications

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

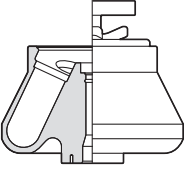
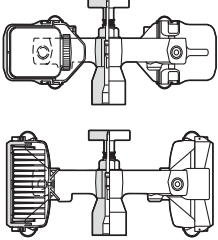
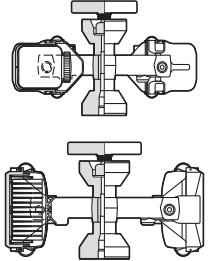
Specifications	Description
Speed	<ul style="list-style-type: none">• Set Speed<ul style="list-style-type: none">— 200 to 10,200 RPM in 10-RPM increments• Speed display<ul style="list-style-type: none">— actual rotor speed in 10-RPM increments or in RCF (when selected)
Time	<ul style="list-style-type: none">• Set time<ul style="list-style-type: none">— to 99 hours 59 minutes or continuous (hold)• Time display<ul style="list-style-type: none">— <i>Timed run</i>: indicates run time remaining— <i>Continuous (hold) or pulse run</i>: indicates elapsed time
Temperature	<ul style="list-style-type: none">• Set temperature<ul style="list-style-type: none">— -10 to +40°C in 1° increments• Temperature control (after equilibration)<ul style="list-style-type: none">— $\pm 2^{\circ}\text{C}$ of set temperature^a• Temperature display (after equilibration)<ul style="list-style-type: none">— chamber temperature in 1° increments• Ambient temperature range<ul style="list-style-type: none">— 10 to 35°• Ambient temperature range for optimum operation<ul style="list-style-type: none">— 10 to 25°C
Humidity restrictions	<75% (noncondensing)
Acceleration	10 acceleration rates
Deceleration	11 deceleration rates
Dimensions	<ul style="list-style-type: none">• Width<ul style="list-style-type: none">— 76.2 cm (30.0 in.)• Depth<ul style="list-style-type: none">— 62.2 cm (24.5 in.)• Height<ul style="list-style-type: none">— 34.3 cm (13.5 in.)
Weight	128 kg (283 lb)
Ventilation clearances (sides and rear)	7.6 cm (3.0 in.)
Finishes	<ul style="list-style-type: none">• Control panel<ul style="list-style-type: none">— coated polystyrene copolymer• Housing surfaces<ul style="list-style-type: none">— acrylic baking enamel

Specifications	Description
Electrical requirements	<ul style="list-style-type: none"> • 208-V, 60-Hz instrument — 187–229 VAC, 12 A, 60 Hz • 220-V, 60-Hz instrument — 198–242 VAC, 12 A, 60 Hz • 200-V, 50/60-Hz instrument — 180–220 VAC, 12 A, 50/60 Hz • 230-V, 50-Hz instrument — 207–253 VAC, 12 A, 50 Hz
Electrical supply	Class I
Maximum heat dissipation into room under steady-state conditions	6800 Btu/hr (2 kW)
Noise level 0.91 m (3 ft) in front of centrifuge	≤ 68 dBa
Installation (overvoltage) category	II
Pollution degree	2 ^b

- a. During transient conditions, such as acceleration and deceleration, rotor temperature may be outside this range. 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.
- b. Normally only nonconductive pollution occurs; occasionally, however, a temporary conductivity caused by condensation must be expected.

Available Rotors

The following Beckman Coulter rotors can be used in the Allegra X-15R centrifuge. The rotors are described in individual manuals that accompany each rotor.

Rotor Profile	Description	Rotor Selection Code	Max RPM ^a	Max RCF ^b ($\times g$) at r_{\max}	Number of Tubes \times Nominal Capacity	Rotor Manual Number
	FX6100 Fixed Angle $r_{\max} = 98.0$ mm	FX6100	10,200	11,400	6 \times 100 mL	GX-TB-005
	SX4750 Swinging Bucket Tube-and-bottle buckets, $r_{\max} = 207.8$ mm Multiwell-plate carriers, $r_{\max} = 183.2$ mm	SX4750 SX4750 μ	4750 4450	5250 4060	4 \times 750 mL 4 \times 96 mL	GX-TB-003
	SX4750A Swinging Bucket (ARIES) Tube-and-bottle buckets, $r_{\max} = 207.8$ mm Multiwell-plate carriers, $r_{\max} = 183.2$ mm	SX4750A SX4750A	4750 4450	5250 4060	4 \times 750 mL 4 \times 96 mL	GX-TB-004

- a. Maximum speeds are based on a solution density of 1.2 g/mL. At upper temperature and humidity ambient conditions, swinging bucket rotor speed may require reduction.
- b. Relative Centrifugal Field (RCF) is the ratio of the centrifugal acceleration at a specified radius and speed (rw^2) to the standard acceleration of gravity (g) according to the following formula: $RCF = rw^2/g$ — where r is the radius in millimeters, w is the angular velocity in radians per second (2π RPM/60), and g is the standard acceleration of gravity (9807 mm/s²). After substitution: $RCF = 1.12 r (RPM/1000)^2$.