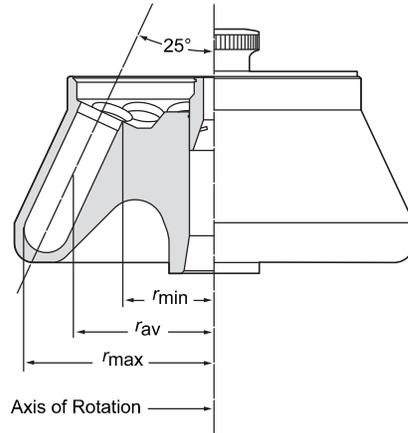


JA-17 FIXED ANGLE ROTOR



SPECIFICATIONS

Maximum speed	17 000 rpm
Critical speed range*	600 to 800 rpm
Density rating at maximum speed	1.2 g/mL
Maximum allowable imbalance of opposing loads	2 grams
Relative Centrifugal Field† at maximum speed	
At r_{max} (123 mm)	$39\,800 \times g$
At r_{av} (90 mm)	$29\,100 \times g$
At r_{min} (56 mm)	$18\,100 \times g$
k factor at maximum speed	690
Conditions requiring speed reductions	see RUN SPEEDS
Number of tube cavities	14
Available tubes	see Table 2
Nominal tube dimensions (largest tube)	29×104 mm
Nominal tube capacity (largest tube)	50 mL
Nominal rotor capacity	700 mL
Approximate acceleration time to maximum speed	
(rotor fully loaded)	2 1/2 min
Approximate deceleration time from maximum speed	
(rotor fully loaded)	3 1/2 min
Weight of fully loaded rotor	9 kg (20 lb)
Rotor material	aluminum
Rotor entry code for Avanti J-E, J2, and J6 series	
microprocessor-controlled centrifuges	17

* The critical speed range is the range of speeds over which the rotor shifts so as to rotate about its center of mass. Passing through the critical speed range is characterized by some vibration.

† Relative Centrifugal Field (RCF) is the ratio of the centrifugal acceleration at a specified radius and speed ($r\omega^2$) to the standard acceleration of gravity (g) according to the following formula:

$$RCF = \frac{r\omega^2}{g}$$

where r is the radius in millimeters, ω is the angular velocity in radians per second ($2\pi \text{ RPM} / 60$), and g is the standard acceleration of gravity (9807 mm/s^2). After substitution:

$$RCF = 1.12 r \left(\frac{\text{RPM}}{1000} \right)^2$$