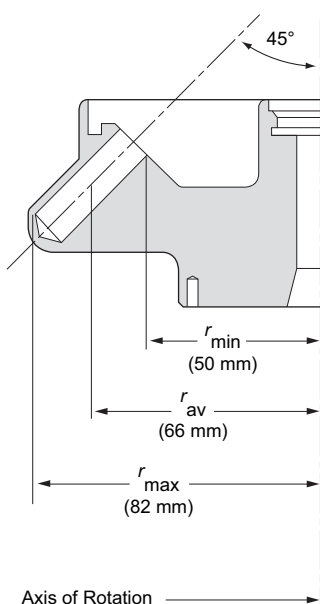


F2402H Hermetically-Sealed Rotor

Specifications



1. Axis of Rotation

Maximum speed

Allegra 64R/Avanti 30	26,000 rpm ^a
Allegra X-30R	18,000 rpm
Allegra X-30	16,000 rpm
Allegra X-22R	15,500 rpm
Allegra 21R/GS-15R/Spinchron 15R	15,300 rpm
Allegra X-22/Allegra 21/GS-15/Spinchron 15	14,500 rpm

Density rating at maximum speed 1.2 g/mL

Relative Centrifugal Field^b at maximum speed at $r_{\max}$

Allegra 64R/Avanti 30	$61,970 \times g$
Allegra X-30R	$29,756 \times g$
Allegra X-30	$23,511 \times g$
Allegra X-22R	$22,065 \times g$
Allegra 21R/GS-15R/Spinchron 15R	$21,499 \times g$
Allegra X-22/Allegra 21/GS-15/Spinchron 15	$19,309 \times g$

k factor at maximum speed 185

Conditions requiring speed reductions see [Run Speeds](#)

Number of tube cavities 24

Nominal tube dimensions 11 × 45 mm

Nominal tube capacity 2 mL

Nominal rotor capacity 48 mL

Approximate acceleration time to maximum speed

(fully loaded, in an Allegra 64R, accel curve 9) 70 sec

Approximate deceleration time from maximum speed

(fully loaded, in an Allegra 64R, decel curve 9) 50 sec

Weight of fully loaded rotor 2.06 kg (4.54 lb)

Rotor and lid material aluminum

a. Allegra 64R/Avanti 30 @ 4°C is 21,000 rpm (40,430 $\times g$) (measured at ambient temperature of 21°C).

b. 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: $RCF = r\omega^2/g$ — 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/s²). After substitution: $RCF = 1.12r (\text{RPM}/1000)^2$