

Ultracentrifuge



Brand: Beckman Coulter

Model: Optima XPN-100, Max 100,000 rpm

Custodian: Sookruthai Wongsubin

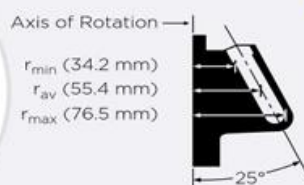
Location: K647 Room, 6th Floor, Chaloeprakiet Building, Phyathai Campus

Description and Specification:

Maximum Speed (rpm)	100,000
Maximum RCF ($\times g$)	802,000
Speed Control	± 2 rpm of set speed (above 1,000 rpm)
Set Temperature	0 to 40°C
Temperature Control	$\pm 0.5^\circ\text{C}$ of set temperature

Rotors

TYPE 90 Ti BIOE 8 x 13.5 mL



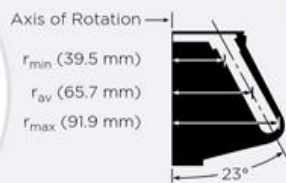
Fixed-Angle Rotor, Titanium

For use in instruments classified: H R S

Major applications: Five-hour separation of plasmid DNA and rapid differential centrifugation of small particles.

Max. RPM	Max. g	k Factor	Number of Tubes Volume/Size	Rotor Capacity
90 000	694 000	25	8 x 13.5 mL 3/8 x 3 in 16 x 76 mm	108 mL

TYPE 70 Ti BIOE 8 x 39 mL

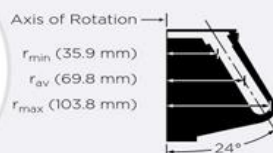


Fixed-Angle Rotor, Titanium

For use in instruments classified: H R S
Major applications: Differential centrifugation of subcellular fractions.

Max. RPM	Max. g	k Factor	Number of Tubes Volume/Size	Rotor Capacity
70 000	504 000	44	8 x 39 mL 1 x 3 1/2 in	312 mL

TYPE 45 Ti BIOE 6 x 94 mL

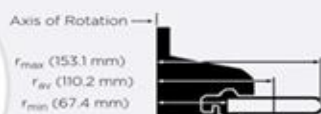


Fixed-Angle Rotor, Titanium

For use in instruments classified: H R S
Note: This rotor cannot be used in 40 000 rpm F or H instruments or the L5-50E unless the instruments have been upgraded with a diffusion pump and vacuum indicator.
Major applications: Differential centrifugation of large volumes of subcellular fractions and viruses.

Max. RPM	Max. g	k Factor	Number of Tubes Volume/Size	Rotor Capacity
45 000	235 000	133	6 x 94 mL 1 1/2 x 4 in	564 mL

SW 41 Ti BIOE 6 x 13.2 mL






Swinging-Bucket Rotor, Titanium Head, and Buckets (black buckets)

For use in instruments classified: H R S
Major applications: Rate-zonal and isopycnic centrifugation of viruses, rate-zonal centrifugation of RNA.

Max. RPM	Max. g	k Factor	Number of Tubes Volume/Size	Rotor Capacity
41 000	268 000	124	6 x 13.2 mL 3/4 x 3 1/2 in 14 x 89 mm	79.2 mL

Tubes

Volume (mL)	Speed (rpm)	Part number	Tube style/Material	Rotor	Cap/Spacer
13.5	90,000	342413	Quick-Seal /polypropylene	90Ti	 342695
39	70,000	342414	Quick-Seal /polypropylene	70Ti	 342699
94	45,000	345776	Quick-Seal /polypropylene	45Ti	 342697
12.5	41,000	331372	Open top /polypropylene	SW41Ti	-
		344059	Open top /Ultra-clear		