



Ultracentrifuge Power for Small-volume Samples—Right on your Workbench

AIRFUGE®

AIR-DRIVEN ULTRACENTRIFUGE



The super-compact Airfuge Ultracentrifuge is a gigantic asset for your laboratory. It pellets nearly any material that can be sedimented in a full-size centrifuge or ultracentrifuge—right on your workbench and in a fraction of the time.

The Airfuge's remarkably short run times result from the combination of high g -forces and short path lengths. And run time is shortened even further by rotor acceleration to full speed—110,000 rpm at 199,000 $x g$ —as quickly as 30 seconds.

DEDICATED APPLICATIONS INCLUDE:

- Binding studies
- Lipoproteins
- Clarification of lipemic samples
- Proteomics
- Sample preparation for electron microscopy
- Soluble solid/total solids ratios for food processing quality assurance



Ordering Information

AIRFUGE ULTRACENTRIFUGE

PART NO.	DESCRIPTION
340400	For 60 Hz, 120V
340401	For 50 Hz, 220V
347854	For 60 Hz, 120V; with Digital Tachometer
347855	For 50 Hz, 220V; with Digital Tachometer

Airfuge air-driven ultracentrifuge includes connecting hose and air filter. Order rotors and accessories separately.

AIRFUGE ACCESSORIES

PART NO.	DESCRIPTION
347592	Digital Speed Readout Accessory, 50/60 Hz. Customer installed

AIRFUGE ROTORS

PART NO.	DESCRIPTION	MAX RPM*	MAX g	k FACTOR	NO. OF TUBES/VOL. SIZE	ROTOR CAPACITY
347593	A-100/18, 18 (degree) Fixed Angle Rotor (silver)	95,000	148,000	12	6 x 175 µL/5 x 20 mm	1050 µL
347594	A-100/30, 30 (degree) Fixed Angle Rotor (blue)	92,000	167,000	19	6 x 240 µL/5 x 20 mm	1440 µL
347595	A-95, 30 (degree) Fixed Angle Rotor (black)	95,000	178,000	19	4 x 450 µL/8 x 20 mm	1800 µL
341260	Chylomicron Rotor	90,000	122,000	45	Yield 2.6 mL	3.5 mL
347596	A-110, 18 (degree) Fixed Angle Rotor (red)	110,000	199,000	9	6 x 180 µL/5 x 20 mm	1080 µL
347833	Batch Rotor	90,000	132,000	55 at 7 mL 8 at 2 mL	n/a	Min. fill vol. 2 mL Max. fill vol. 7 mL
347844	Electron Microscopy Rotor (EM-90)	90,000	118,000	19	Max vol. 6 x 100 µL	600 µL

**A gauge air pressure reading 30 psig (210 kPa) must be maintained for operation at maximum speed.*

AIRFUGE TUBES AND RACKS

PART NO.	DESCRIPTION	PART NO.	DESCRIPTION
343622	Polyethylene Tubes, 5 x 20 mm	342630	Polyallomer Tubes, 5 x 20 mm
344718	Ultra-Clear™ Tubes, 5 x 20 mm	345843	Ultra-Clear Tubes, 8 x 20 mm



Specifications

Maximum speed	110,000 rpm ± 5,000 rpm	Timer	0-300 minutes in five-minute increments, HOLD for longer runs.
Maximum g-force	199,000 x g	Dimensions	11 in. (280 mm) W x 8 in. (200 mm) H x 15 in. (380 mm)L; 23 lb. (10.4 kg)
Drive system	Air turbine drive	Air and power requirements	To perform to specifications, an air flow rate of 3.5 cubic feet per minute (0.0016 m ³ /s) at 42 psig (290 kPa) is required. The unit is equipped with six feet (1.83 m) of flexible air hose and attaches to a standard 1/4 in. (6.35 mm) male hose connector. A filter is supplied to avoid contamination by removing oil and water from compressed air. Power requirements are 120 volt, 60 Hz, or 220 volt, 50 Hz.
Air pressure at ultracentrifuge for routine operation	30 psig (210 kPa)		
Acceleration time	30-60 seconds		
Deceleration time	2.5-5.5 minutes		
Speed control	Air-pressure regulation		
Speed readout	By conversion of air pressure reading from instrument gauge. An optional Digital Speed Readout Accessory (347592) is available.		
Braking system	Coasting, then frictional braking by engagement of brake pin.		
Temperature range	Rotor temperature is a few degrees above ambient.		

*For any additional rotor and adapter information, visit us at:
www.beckmancoulter.com/centrifugefirst*



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Beckman Coulter, Inc. • 4300 N. Harbor Boulevard, Box 3100 • Fullerton, California 92834-3100
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Worldwide Life Science Research Division Offices:

Australia (61) 2 9844-6000 **Canada** (905) 819-1234 **China** (86) 10 6515 6028 **Eastern Europe, Middle East, Africa** (41) 22 994 07 07
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