TECHNICAL DATA SHEET

ALab™ DM0424 / DM0408 Multi-Purpose Low-Speed Centrifuge

Multi-purpose low-speed centrifuge · Max. speed 4000rpm · Max. RCF 2500×g (DM0424) / 1900×g (DM0408) · Max. capacity 4×50mL (DM0424)



ALab™ DM0424 / DM0408 Multi-Purpose Low-Speed Centrifuge

The ALab™ DM0424 / DM0408 Multi-Purpose Low-Speed Centrifuge; image shown for reference.

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SECTION I

Product Overview

Multi-purpose low speed centrifuges are versatile and can be used in applications from clinical to biochemical for qualitative analysis of serum, plasma, blood, and urine. Both models reach 4000rpm, the speed can be set in RPM/RCF, and three routine programs are stored (Blood 3200rpm 10min, Urine 1800rpm 5min, Faecal 1300rpm 10min). The DM0424 (LCD) reaches 2500×g and takes seven optional rotors, swing-out and angle, up to 4×50mL; the DM0408 (LED) reaches 1900×g with the A8-15P angle 8×15mL rotor (default) or the A12-10P angle 12×10mL or 8×15mL rotor.

SECTION II

Core Advantages

- **Max. speed** — 4000rpm
- **Speed accuracy** — ±100rpm
- **Max. capacity** — 4×50mL (DM0424)
- **Run time** — 1-99min, HOLD

SECTION III

Specifications

Technical data — DM0424 · DM0408

Specifications	
Brand	ALab™ by ACS Material
Models	DM0424, DM0408
SKU #	Parent ALD424G0; ALD42400 (DM0424), ALD40800 (DM0408)
Product Type	Multi-purpose low-speed centrifuge
Max. speed	4000rpm (both models)
Speed accuracy	±100rpm
Run time	1-99min, HOLD
Motor	Brushless DC motor
Program	Blood: 3200rpm, 10min; Urine: 1800rpm, 5min; Faecal: 1300rpm, 10min
Safety device	Automatic internal diagnosis
Power requirements	Single phase, 100-240V, 50Hz/60Hz (110W DM0424; 85W DM0408)

Specifications by model

Specification	DM0424	DM0408
SKU #	ALD42400	ALD40800
Speed range	500-4000rpm, increment: 100rpm	300-4000rpm, increment: 100rpm
Max. RCF	2500×g	1900×g
Speed accuracy	±100rpm	±100rpm
Rotor	Optional: S6-15, S4-50, SE6-15P, A24-15P, AE24-15, A8-15P, A12-10P	A8-15P angle 8×15mL (default); A12-10P angle 12×10mL or 8×15mL
Run time	1-99min, HOLD	1-99min, HOLD
Motor	Brushless DC motor	Brushless DC motor
Display	LCD	LED
Program	Blood: 3200rpm, 10min; Urine: 1800rpm, 5min; Faecal: 1300rpm, 10min	Blood: 3200rpm, 10min; Urine: 1800rpm, 5min; Faecal: 1300rpm, 10min
Safety device	Automatic internal diagnosis	Automatic internal diagnosis
Acceleration/deceleration	3 up / 4 down steps	25s up / 35s down
Power requirements	Single phase, 100-240V, 50Hz/60Hz, 110W	Single phase, 100-240V, 50Hz/60Hz, 85W
Dimension (W×D×H)	364×440×268mm	286×367×227mm
Weight	14.5kg	9.2kg
Noise level	≤62dB(A)	≤60dB(A)

Rotors

Accessory	Cat. No.	Description
S6-15 swing-out rotor	19400082	DM0424: optional rotor. Capacity 6×15mL; max. speed 4000rpm; aluminum alloy. Default adapters (as printed): A15P22, A5P17.
S4-50 swing-out rotor	19400100	DM0424: optional rotor. Capacity 4×50mL; max. speed 4000rpm; aluminum alloy. Default adapters (as printed): A15P30, A5P17.
SE6-15P rotor	—	DM0424: optional rotor (model name as confirmed for the DM0424; further data not published).
A24-15P angle rotor	19400101	DM0424: optional rotor. Capacity 24×15mL; max. speed 4000rpm; high strength plastic. Default adapters (as printed): A15P22, A5P17.
AE24-15 rotor	—	DM0424: optional rotor (model name as confirmed for the DM0424; further data not published).
A8-15P angle rotor	19400084	DM0408: default rotor. DM0424: optional rotor. Capacity 8×15mL; max. speed 4000rpm; high strength plastic. Default adapter (as printed): A15P22.
A12-10P angle rotor	19400068	DM0408: compatible rotor. DM0424: optional rotor. Capacity 8×15mL or 12×10mL; max. speed 4000rpm; high strength plastic.

Listed by Cat. No. for reference; not selectable in the order menu.

Adapters

Accessory	Cat. No.	Description
A15P30 adapter	19500024	Default adapter for S4-50 (as printed). 50mL change 15mL adapter for 17×120mm centrifuge tubes and 13/16×100mm blood collection tubes; 4 pcs/pk.
A15P22 adapter	19500021	Default adapter for S6-15, A24-15P and A8-15P (as printed). 15mL adapter for 17×120mm centrifuge tubes and 13/16×100mm blood collection tubes; 24 pcs/pk.
A5P17 adapter	19500022	Default adapter for S4-50, S6-15 and A24-15P (as printed). 5mL adapter for 13×75mm blood collection tubes; 24 pcs/pk.
A2P17 adapter	19500023	Optional adapter (as printed) for S4-50, S6-15, A24-15P and A12-10P. 1.5/2mL cryogenic vial / centrifuge tube adapter; 24 pcs/pk.

Listed by Cat. No. for reference; not selectable in the order menu.

Scope of delivery

— Main unit: ALab™ DM0424 or DM0408 (one SKU per model)

— DM0408: A8-15P angle 8×15mL rotor printed as default; DM0424: rotors optional, see the rotor table (listed by Cat. No.)

SECTION IV

Applications

Choose the DM0424 for swing-out rotors (6×15mL, 4×50mL), the 24×15mL angle rotor and an LCD display; choose the DM0408 for a smaller unit (286×367×227mm, 9.2kg) with the angle 8×15mL rotor (default) or the angle 12×10mL or 8×15mL rotor and an LED display. Both run up to 4000rpm with the same three routine programs (Blood, Urine & Faecal), for qualitative analysis of serum, plasma, blood, and urine.

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