

TECHNICAL DATA SHEET

ALab™ DM0412 Low-Speed Centrifuge

Low-speed centrifuge • 300–4500 rpm • 2490 ×g • two non-interchangeable rotor configurations • LCD



ACS Material ALab™ DM0412 Low-Speed Centrifuge

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SECTION I

Product Overview

The ALab™ DM0412 Low-Speed Centrifuge is a clinical and biochemical centrifuge for the separation of whole blood components such as serum, plasma, buffy coat and red blood cells, as well as other bodily fluids. It runs from 300 to 4500 rpm in 100 rpm increments, can be set and displayed in either speed or relative centrifugal force, and is offered in two non-interchangeable rotor configurations: the A12-10P for 12 × 10 mL or 8 × 15 mL tubes at up to 2490 ×g, or DM0412(A6-50P) for 6 × 50 mL or 6 × 15 mL at up to 1800 ×g. The configuration is selected at quotation; the published data state the two rotors are not interchangeable. A brushless DC motor, door interlock, overspeed detector and automatic internal diagnosis are standard.

SECTION II

Core Advantages

- **Two non-interchangeable configurations** — A12-10P 4500 rpm / 2490 ×g; A6-50P 4000 rpm / 1800 ×g
- **Set in rpm or in g** — speed/RCF switch with direct readout
- **Quick spin and short-time run** — press-and-hold pulse key; 30 sec–99 min or continuous
- **Safety as published** — door interlock, overspeed detector, automatic internal diagnosis

SECTION III

Specifications

Technical data

Specifications	
Speed Range	300–4500 rpm, increment 100 rpm · accuracy ±20 rpm
Max. RCF	2490 ×g (A12-10P)
Rotor Type	A12-10P or A6-50P — non-interchangeable factory configurations
Rotor Capacity	A12-10P: 12 × 1.5–5 / 4–7 / 8.5–10 mL; 8 × 15 mL · A6-50P: 6 × 50 mL or 6 × 15 mL
Run Time	30 sec – 99 min HOLD (continuous operation)
Motor / Display	Brushless DC motor · LCD
Safety Devices	Door interlock · Overspeed detector · Internal diagnosis
Acceleration / Braking	A12-10P: 20 s ↑ / 13 s ↓ · A6-50P: 20 s ↑ / 20 or 90 s ↓
Power Requirements	Single-phase 100–240 V, 50/60 Hz, 3 A, 70 W
Dimensions [W×D×H]	354 × 304 × 215 mm
Weight	6 kg

Specifications	
Rotor A12-10P (19400068)	4500 rpm · 2490 ×g · 12 × 10 mL or 8 × 15 mL
Rotor A6-50P (19100197)	4000 rpm · 1800 ×g · 6 × 50 mL or 6 × 15 mL
Adapter A10P15	For 13 × 75 and 13 × 100 mm tubes in the A12-10P
Depth plug	For 13 × 75 and 16 × 75 mm tubes in the A12-10P

Maximum RCF applies to the rotor named. Within the A12-10P, radius and therefore RCF change with the adapter: 11 cm / 2490 ×g seated directly, 9.8 cm / 2218 ×g with the A10P15 adapter and plug.

Scope of delivery

- Supplied: DM0412 centrifuge, 1 unit
- Standard configuration: A12-10P rotor with adapters, 1 set
- Alternative configuration: DM0412(A6-50P), confirm at quotation
- Supply: 100–240 V, 50/60 Hz, 3 A, 70 W
- A12-10P and A6-50P are not interchangeable
- Rotor Cat. Nos. 19400068 and 19100197

SECTION IV

Applications

Typical applications for the ALab™ DM0412 Low-Speed Centrifuge include:

- **Whole blood separation** — serum, plasma, buffy coat and red blood cells
- **Vacuum blood collection tubes** — 13 × 75, 13 × 100, 16 × 75 and 16 × 107 mm formats
- **15 mL and 50 mL formats** — 15 mL: 8 places with A12-10P (2490 ×g) or 6 with A6-50P (1800 ×g); 50 mL requires A6-50P
- **Clinical and biochemical laboratories** — as published

Product value: the widest tube coverage in the current ALab™ centrifuge range, with two non-interchangeable rotor configurations spanning vacuum blood collection tubes through to 50 mL tubes. Maximum RCF depends on the rotor and adapter path selected.

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