

TECHNICAL DATA SHEET

ALab™ DG1616 High-Speed Centrifuge & DG1616R High-Speed Refrigerated Centrifuge

High Speed Centrifuge · 16000rpm / 28621×g · 4×400mL · DG1616R refrigerated



ALab™ DG1616 High-Speed Centrifuge & DG1616R High-Speed Refrigerated Centrifuge

The ALab™ DG1616 and DG1616R. Series image shown for reference.

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SECTION I

Product Overview

The ALab™ DG1616 High Speed Centrifuge and DG1616R High Speed Refrigerated Centrifuge offer smart touch control, a maximum speed of 16000rpm and a maximum RCF of 28621×g with a maximum capacity of 4×400mL; the DG1616R is refrigerated. Time setting 30s–99h59min59s or HOLD; 100 programs; nine acceleration and deceleration levels; brushless DC motor, ≤70dB; DG1616R temperature setting –10°C–40°C (DG1616: none); weight 70kg / 90kg.

SECTION II

Core Advantages

- **Speed / RCF** — 16000rpm / 28621×g
- **Control** — smart touch UI
- **Motor** — brushless DC, ≤70dB
- **Capacity** — 4×400mL
- **Programs** — up to 100
- **DG1616R** — –10°C to 40°C

SECTION III

Specifications

Technical data — DG1616 · DG1616R

Specifications	
Brand	ALab™ by ACS Material
Model	DG1616 / DG1616R
SKU #	ALG16S00
Max. speed	16000rpm (300–16000rpm) in 1 rpm increments
Max. RCF	28621×g, step: 1×g
Max. capacity	4×400mL
Time setting	30s–99h59min59s / HOLD (continuous running)
Speed up and down gears	9 up / 9 down
Program storage	100
Motor type	Brushless DC Motor
Noise level	≤70dB
Allowed ambient temperature and humidity	5–40°C, 80%RH

Specifications by model — DG1616 · DG1616R

Specifications by model		
Parameter	DG1616	DG1616R
Max. speed	16000rpm (300–16000rpm) in 1 rpm increments	16000rpm (300–16000rpm) in 1 rpm increments
Max. RCF	28621×g, step: 1×g	28621×g, step: 1×g
Max. capacity	4×400mL	4×400mL
Time setting	30s–99h59min59s / HOLD (continuous running)	30s–99h59min59s / HOLD (continuous running)
Temperature setting	—	–10°C–40°C
Speed up and down gears	9 up / 9 down	9 up / 9 down
Program storage	100	100
Motor type	Brushless DC Motor	Brushless DC Motor
Noise level	≤70dB	≤70dB
Power supply	100–240V, 50/60Hz, 650W	100–240V, 50/60Hz, 1050W
Size (L×W×H)	440×640×375mm	623×640×375mm
Weight	70kg	90kg
Allowed ambient temperature and humidity	5–40°C, 80%RH	5–40°C, 80%RH

Rotor overview — DG1616 / DG1616R

Rotor overview				
Rotor	Cat. No.	Max. speed	Max. RCF	Capacity
SR4-200	19400154	5500rpm	5495×g	4×200mL (adapters: 4×100mL, 4×50mL, 20×15mL, 32×7mL, 48×2mL)
SR4-400	19400155	5000rpm	4639×g	4×400mL (adapters: 4×100mL, 16×50mL, 36×15mL, 76×7mL, 136×2mL)
SE4-100 (standard accessory)	19400041	4000rpm	2950×g	4 buckets; tube sizes by bucket set
AS30-2	19400034	16000rpm	28620×g	30×2mL
AS18-5V (cone bottom)	19400035	15000rpm	25155×g	18×5mL (cone bottom)
AS12-PCR8	19400036	14000rpm	21912×g	12×PCR 8-tube strip
AS60-2	19400037	14000rpm	21912×g	60×2mL
AS6-50V (cone bottom)	19400038	12500rpm	17468×g	6×15mL or 6×50mL
A8-50 (cone bottom)	19400039	5000rpm	3968×g	16×15mL or 8×50mL
A30-15 (cone bottom)	19400040	4500rpm	3210×g	30×15mL
S2-MP	19400062	4000rpm	2200×g	8×384 microplates / 96 microplates / Elisa plate; 4×deep well plates

SECTION IV

Applications

Life sciences, pharmaceutical, environmental, chemical, food, soil, petroleum and mining, textile and microbiology applications, as listed in the catalogue.

Product value: a high speed platform with touch control, dynamic balance detection and a wide range of rotors and adapters, with a refrigerated version for temperature-sensitive separations.

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