

COMPACT REFRIGERATED HIGH-SPEED BENCHTOP CENTRIFUGE

LACE16AR

Precision-cooled benchtop platform with NCP composite rotors for 0.2 ml PCR, 1.5 ml, 2 ml and 5 ml tube formats.

LACE16AR combines 16,500 rpm and $24,148 \times g$ with precise $-20\text{ }^{\circ}\text{C}$ to $+40\text{ }^{\circ}\text{C}$ temperature control. Its compact refrigerated platform supports DNA/RNA extraction, protein purification, PCR, cell separation and other heat-sensitive laboratory workflows.

16,500 RPM

$24,148 \times g$

$-20\text{ }^{\circ}\text{C}$ TO $+40\text{ }^{\circ}\text{C}$

NCP ROTOR TECHNOLOGY →

4 RETAINED NCP ROTORS

5-INCH TOUCH SCREEN

ROTOR AUTO-ID

10 ACCEL / DECEL

99 PROGRAMS

Document type: Technical Specification Sheet

Product: LACE16AR Refrigerated High-Speed Centrifuge

Product number: PRO7067

Source consolidation: 2026 LACE16AR refrigerated product data + retained LACE16AS NCP rotor configuration



LACE16AR compact refrigerated main unit with HD touch control.



LACE16AR front view | compact $52 \times 32 \times 23$ cm footprint.

MODEL
LACE16AR

MAX CAPACITY
 18×5 ml

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Technical Specification

Refrigerated benchtop centrifuge, 16,500 rpm, 24,148 × g and precision cooling

MAX SPEED 16,500 RPM

MAX RCF 24,148 × G

DECLARED MAX CAPACITY 18 × 5 ML

-20 °C TO +40 °C

800 W

99 USER PROGRAMS

Performance and operating functions

Performance

Parameter	Specification
Max speed	16,500 rpm
Max RCF	24,148 × g
Declared max capacity	18 × 5 ml
Rotor range	Four retained fixed-angle NCP rotor configurations
Acceleration / deceleration	10 selectable levels / 10 selectable levels
Stored programs	99 user-defined programs
Motor	AC frequency-conversion motor
Timer range	1 s-99 min 59 s / 1 min-99 h 59 min

SPEED RANGE

Up to 16,500 rpm

RELATIVE FORCE

Up to 24,148 × g

Operating functions

Function	Availability
Display / control	5-inch high-definition touch screen
Automatic rotor recognition	Supported, with timely alarm
Run modes	Differential timing, gradient, point movement and timed centrifugation
Parameter memory	All run parameters can be stored and reused
Automatic slowdown	Automatic slowdown and stop at max. 500 rpm
USB export	Optional data export
Cooling control	Smart temperature control with operating-mode switching

TEMPERATURE

-20 °C to +40 °C

TEMPERATURE ACCURACY

±1 °C

Refrigeration uses an eco-friendly refrigerant and smart control to support stable low-temperature operation for heat-sensitive samples.

Control, Safety and Construction

Touch control, rotor recognition, balance protection and dimensional data

Control and display

Parameter	Specification
Display	5-inch touch screen
Speed accuracy	±10 rpm
RCF accuracy	1 × g
Temperature setting	-20 °C to +40 °C
Temperature accuracy	±1 °C
Live parameters shown	Speed / RCF, time, acceleration, deceleration and program data
Parameter change during run	Yes, without stopping

Workflow notes

Stored methods: 99 user-defined programs support repeated centrifugation routines.

Instant centrifugation: quick-start operation is available for short routine runs.

Real-time adjustment: parameters can be changed during operation without stopping the run.

Construction and safety

Parameter	Specification
Structure	Desktop
Body material	T45 high-strength steel, one-piece stamped construction
Rotor material	NCP composite material
Rotor recognition	Automatic rotor identification
Damping / balance	3-level rubber shock absorption with automatic balancing
Emergency lid release	Supported in unexpected power failure
Noise	≤ 52 dB(A)
Safety shutdown	Imbalance, over-temperature and over-speed protection

Electrical, application and construction data

Parameter	Specification
Model	LACE16AR
Product number / SKU	PRO7067
Structure	Desktop / benchtop
Rotor chamber	Nano-ceramic coated, corrosion- and rust-resistant
Power supply	AC 220 ± 22 V, 50 Hz, 10 A
Power consumption	800 W
Net weight	35 kg
Dimensions	52 × 32 × 23 cm

Parameter	Specification
Applications	DNA/RNA extraction, protein purification, PCR, PRP, cell separation and small-sample processing
Typical fields	Biological, medical, disease-control, agricultural, chemical and pharmaceutical laboratories
Door safety	Electronic lock; lid opens only at zero speed
Emergency release	Manual opening device for power failure
HS code	8421199090
NCP rotor locking	Fit rotor and turn one full circle to secure the head cover

NANO
Nano-Ceramic Chamber Technology

Corrosion-resistant · Easier cleaning · Longer service life ↓

Compatible Rotors

Four retained NCP fixed-angle rotor options for the LACE16AR / PRO7067 platform

NCP

Carbon-Fiber Composite Rotor Technology

Lightweight · Corrosion-resistant · Compare and learn more →



PRO3885

NCP TECHNOLOGY

12 × 1.5 / 2 ml NCP angle rotor
16,500 rpm | 21,610 × g



PRO5462

NCP TECHNOLOGY

48 × 0.5 ml NCP angle rotor
15,000 rpm | 21,256 × g



PRO6935

NCP TECHNOLOGY

24 × 1.5 / 2 ml NCP angle rotor
15,000 rpm | 22,387 × g



PRO6938

NCP TECHNOLOGY

18 × 5 ml NCP angle rotor, round bottom
15,000 rpm | 24,148 × g

The four LACE16AS NCP rotor configurations requested for retention are carried over to this LACE16AR revision. Final compatibility remains subject to quotation confirmation.

Retained Rotor Matrix

LACE16AS NCP rotor configuration retained for the refrigerated LACE16AR platform

Four retained NCP rotors

Rotor SKU	Capacity / format	Max speed	Max RCF	Type	Manufacturer reference
PRO3885	12 × 1.5 / 2 ml	16,500 rpm	21,610 × g	NCP angle	FNCP-45-122
PRO5462	48 × 0.5 ml	15,000 rpm	21,256 × g	NCP angle	FNCP-45-32PCR
PRO6935	24 × 1.5 / 2 ml	15,000 rpm	22,387 × g	NCP angle	FNCP-45-242
PRO6938	18 × 5 ml, round bottom	15,000 rpm	24,148 × g	NCP angle	FNCP-45-185

Configuration control

Configuration basis: the four NCP rotors from the completed LACE16AS specification are retained for LACE16AR as requested.

Quotation control: confirm the selected LACE16AR rotor SKU and permitted refrigerated operating profile in the binding quotation.

PRO5462 update: the current CSV explicitly lists 15,000 rpm and 21,256 × g.

Technology and workflow notes

NCP composite rotor platform: lightweight rotor construction, high strength, slower heat conduction, and corrosion resistance.

Automatic rotor identification: supports safer setup by reducing the risk of selecting an incorrect rotor profile.

Confirmed tube formats: 0.5 ml, 1.5 / 2 ml and 5 ml formats according to the four linked rotor records.

Soft start / stop control: 10 acceleration and 10 deceleration levels help adapt the run profile to sensitive samples.

Nano-ceramic chamber: corrosion- and rust-resistant coating supports easier cleaning, lower operational noise and longer chamber service life.

Ordering information

Item	Value
Model	LACE16AR
Product number	PRO7067
Product type	Refrigerated high-speed benchtop centrifuge
Rotor range	Four retained fixed-angle NCP rotors
Main positioning	Compact precision-cooled platform for DNA/RNA, protein, PCR and cell workflows

Selection note

Tube format first: choose the rotor by tube geometry and nominal volume before comparing speed or RCF.

Check tube limits: final operating speed must also respect the tube manufacturer's rated limits.

Balance requirements: all rotor configurations must be loaded symmetrically and according to the laboratory SOP.

Rotor compatibility is based on the retained LACE16AS configuration requested for LACE16AR. Confirm the final rotor, refrigerated speed limits, tube limits and laboratory SOP in the binding quotation.

MANUFACTURER AND SUPPORT

COLO Lab Experts

Polje ob Sotli 4, SI-3255, Slovenia

LACE16AR selection should be matched to sample volume, tube geometry, target RCF, balancing requirements and the required temperature profile.

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Request a quote or rotor configuration guidance

Tell us the preferred tube format, sample volume, target RCF and required temperature profile. COLO can help match the correct NCP rotor and refrigerated operating configuration.

Explore NCP rotor technology

Open centrifuge catalog

Email sales

Call +386 64 222 724

MAIN CENTRIFUGE NAVIGATION

NCP Rotor Technology

Laboratory Centrifuges Catalog

ROTOR SUPPORT

PRO3885 · 12 × 1.5/2 ml

PRO6935 · 24 × 1.5/2 ml

PRO6938 · 18 × 5 ml

QUOTE & TECHNICAL SUPPORT

Request a Quote

Email COLO.Science

Binding specification notice: This document consolidates the supplied 2026 LACE16AR / PRO7067 refrigerated product data and retains the four NCP rotor configurations from the LACE16AS specification. Confirm final rotor compatibility, refrigerated speed limits and certification documents in the binding quotation. Specifications may change without notice.