

REFRIGERATED MICROCENTRIFUGE

LACE-LION

Compact refrigerated microcentrifuge for clinical, medical, biochemistry and molecular laboratory workflows.

The LACE-LION refrigerated microcentrifuge combines 15,100 rpm / 21,400 × g performance with chamber temperature measurement, LCD soft touch control, rotor ID recognition and disbalance protection. The standard configuration includes a 24 × 1.5 / 2 ml angle rotor with click-seal biocontainment lid technology and a PCR row tube set.

15,100 RPM

21,400 × G

-20 °C TO 40 °C

24 × 1.5 / 2 ML INCLUDED

LCD SOFT TOUCH

ROTOR ID

10 RAMPS

IVD COMPLIANT

Document type: **Technical Specification Sheet**

Product: **LACE-LION Refrigerated Microcentrifuge**

Standard rotor: **24 × 1.5 / 2 ml angle rotor, biocontainment click-seal lid**

Format: **A4 landscape | COLO.Science Centrifuge TechSpec**



LACE-LION refrigerated microcentrifuge main unit.



Standard included rotor: 24 × 1.5 / 2 ml angle rotor.

MODEL
LACE-LION

MAX RCF
21,400 × g

CONTACT
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Performance and Cooling

15,100 rpm, 21,400 × g and refrigerated chamber control

- 100-15,100 RPM
- STEP 10 RPM
- 21,400 × G
- 360 W
- COOLING ≤ 9 MIN

Performance and temperature data

Centrifugation performance

Parameter	Specification
Maximum speed / RCF	15,100 rpm / 21,400 × g
Speed range	100-15,100 rpm
Speed setting step	10 rpm
Timer	1 sec to 9 h 59 min; continuous operation; short spin button
RPM / RCF conversion	Yes
Programs	6 programs can be memorized; more according to customer request
Acceleration / deceleration	10 programmable acceleration ramps and 10 programmable deceleration ramps

MAX SPEED
15,100 rpm

MAX RCF
21,400 × g

Cooling and chamber data

Parameter	Specification
Temperature control range	-20 °C to 40 °C, 1 °C increments
Cooling time	≤ 9 min from room temperature to set temperature
Chamber temperature display	Yes; measured and displayed to help prevent overheating of samples
Inner chamber	Stainless steel
Ambient temperature	0-40 °C
Noise	≤ 50 dB(A)
Power	360 W

COOLING
-20 to 40 °C

NOISE
≤ 50 dB(A)

Control System and Safety

LCD soft touch operation, rotor recognition and certified biocontainment

Control and display

Parameter	Specification
Display	LCD touch screen / soft touch screen
Parameter settings	Soft touch keyboard
Control system	Microprocessor control set points
During-run adjustment	Speed / RCF, time and parameters can be set during centrifuge operation
Displayed values	Rotation speed, time, rotor number and RCF
High resolution display	LCD display visual available from product image set

Workflow points

Double control system: capacitive touch screen and soft touch keyboard.

Short spin: quick spin operation is available for routine microcentrifuge work.

End process alarm: sound alarm is provided at the end of the process.

Safety and compliance

Parameter	Specification
Electric safety lid lock	Mechatronic motor door lock
Lead / lid lock	Simple lid lock with one button
Rotor ID	Automatic rotor recognition and disbalance protection
Paint coating	Microbiological paint coating protection
Standards	IEC 61010-1, IEC 61010-2, IEC 61010-020
Certifications	CE marked, certified biocontainment, IVD compliant, CSA

Application note

Clinical centrifuge demand: maximum speed and RCF are positioned to meet common clinical centrifuge requirements.

Laboratory use: widely used in medical and biochemistry laboratories.

Included Rotor and LCD Interface

Standard 24 × 1.5 / 2 ml rotor with biocontainment lid technology



LACE-LION
Refrigerated microcentrifuge main unit
15,100 rpm | 21,400 × g



Included rotor
Angle rotor 24 × 1.5 / 2 ml with biocontainment click-seal lid technology
Standard configuration



LCD control
High resolution LCD display and soft touch operation
Speed, time, rotor number and RCF display

Rotor configuration note

Included configuration

Standard rotor: angle rotor 24 × 1.5 / 2 ml with click-seal biocontainment lid technology.

PCR row tubes: set includes 4 × PCR row tubes, 0.2 ml.

Adapters: combined with adapters, this rotor type can support formats from 2 ml to 15 ml according to the supplied note.

Optional rotor range

Optional range: up to 6 rotors available, to be confirmed according to the ordered application.

Selection: confirm tube type, sample volume, target RCF, temperature profile and balancing routine before procurement.

Technical Specification Table

Main item data for quotation and PDF datasheet use

Item data

Item	Value
Item name	LACE-LION
Set of standard rotors included	24 × 1.5 / 2 ml + 4 × PCR row tubes, 0.2 ml
Max speed / RCF	100-15,100 rpm / 21,400 × g
Display	LCD touch screen
Power supply	AC 220 V / 50 Hz
Power	360 W
Dimension	27 × 48 × 25 cm
Weight N.W. / G.W.	21 / 36 kg

Operational data

Parameter	Specification
Ambient temperature	0-40 °C
Temperature range	-20 °C to 40 °C, 1 °C increments
Cooling time	≤ 9 min
Timer	1 sec-9 h 59 min / continuous / short spin button
Acceleration / deceleration	10 programming ramps, acceleration 10 s and deceleration 12 s noted in source text
RPM / RCF conversion	Yes
Chamber temperature display	Yes
End process sound alarm	Yes

Selection note

Primary use: LACE-LION is suitable for medical, biochemistry and clinical laboratory centrifugation where refrigerated microcentrifuge performance is required.

Optional rotor confirmation: the supplied text notes up to 6 optional rotors. The final rotor matrix should be confirmed once exact optional rotor product numbers are available.

Specification notice: technical data can be changed without prior notice; final procurement should follow the quotation and engineering-approved datasheet.

MANUFACTURER AND SUPPORT

COLO Lab Experts

Polje ob Sotli 4, SI-3255, Slovenia

If this centrifuge does not match the specific needs of the application, COLO can support configuration guidance and technical solution selection.

QUICK CONTACT

colo.si

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Request a quote or rotor configuration guidance

Send the tube format, sample volume, target speed / RCF, temperature requirement, biocontainment need and documentation expectation. COLO can help confirm the correct LACE-LION rotor and adapter configuration.

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MAIN CENTRIFUGE NAVIGATION

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VISUAL REFERENCES

[Main Unit](#)

[Included Rotor](#)

[LCD Display](#)

QUOTE & TECHNICAL SUPPORT

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Binding specification notice: This document consolidates the supplied LACE-LION technical text and image references. The manufacturer may improve design and specifications without prior notice. For procurement and QA, the binding version should be the final engineering-approved quotation or datasheet issued at the time of sale.