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COLO.SCIENCE REFRIGERATED CENTRIFUGE

LACE56R

High Capacity Refrigerated Benchtop Centrifuge | -20 °C to +40 °C

LACE56R combines the flexible LACE56 rotor platform with active refrigeration for temperature-sensitive laboratory samples. It delivers up to 6000 rpm, 6321 x g and 4 x 750 ml while maintaining a selectable chamber temperature from -20 °C to +40 °C with ± 1 °C precision.

Fast refrigeration: cools to 4 °C in 8 minutes, reducing preparation time between runs and helping protect enzymes, proteins, blood components, vaccines and other temperature-sensitive materials.

6000 RPM

6321 X G

4 x 750 ML MAX.

-20 °C TO +40 °C

4 °C IN 8 MIN

5-INCH TOUCH SCREEN

AUTO ROTOR ID

Document: English Technical Specification

Product: LACE56R refrigerated benchtop centrifuge

Rotor families: same LACE56 platform portfolio | Temperature precision: ± 1 °C

Format: A4 landscape | 7 pages | print-ready HTML



LACE56R refrigerated high-capacity centrifuge | rotor configured according to order

PRODUCT NO.
PRO6992

MODEL
LACE56R

COOLING
-20 to +40 °C

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Temperature protection, throughput and control

High-capacity refrigerated centrifugation with wide rotor and adapter selection

MAXIMUM SPEED

6000 rpm

MAXIMUM RCF

6321 x g

MAX. CAPACITY

4 × 750 ml

TEMPERATURE

-20 to +40 °C

COOLING

4 °C in 8 min

Refrigeration and sample protection

Rapid pre-cooling: reaches 4 °C in 8 minutes to shorten setup and turnaround between temperature-controlled runs.

±1 °C temperature precision: limits chamber temperature variation during protocols involving proteins, enzymes, blood fractions and other sensitive materials.

Wide temperature range: -20 °C to +40 °C supports chilled separation, controlled ambient operation and protocol flexibility.

Large-batch protection: up to 4 × 750 ml allows high-throughput processing without giving up active cooling.

Imported fast-cooling system: designed for stable, repeated refrigerated laboratory operation.

Important: chamber set temperature is not automatically the same as actual sample temperature. Validate critical protocols using the vessel, load, rotor, run time and starting temperature used in practice.

Control, safety and workflow

Automatic rotor identification: supports correct rotor limits and helps reduce setup errors.

5-inch touch panel: clear access to speed, RCF, time, temperature and ramp parameters, including adjustment during operation.

10 acceleration / deceleration profiles: gentler ramps help protect fragile pellets, gradients and interfaces from disturbance.

Multiple working modes: timed, differential and gradient centrifugation support routine and multi-step workflows.

Protection system: electronic lid lock, imbalance stop, over-speed and over-temperature protection, motor over-current protection and error diagnostics.

NCP

NCP Rotor Technology

Compatible rotor options remain shared with the LACE56 platform.

Configuration note: select the rotor by vessel type, volume, bottom geometry, target RCF, cooling requirement and biosafety sealing need. The lowest-rated rotor, bucket, adapter or vessel determines the permitted operating limit.

Main technical specifications

Parameter	Specification	Parameter	Specification
Model	LACE56R refrigerated benchtop centrifuge	Power supply	AC 220 ±22 V, 50 Hz, 10 A
Model code reference	PRO6992	Total power	1200 W
Maximum speed	6000 rpm, rotor dependent	Speed accuracy	±10 rpm
Maximum RCF	6321 x g, rotor dependent	Timer range	1 s - 99 min 59 s / 1 min - 99 h 99 min
Maximum capacity	4 × 750 ml with compatible swing-out rotor	Acceleration / deceleration	10 profiles
Temperature range	-20 °C to +40 °C	Working modes	Timed / differential / gradient centrifugation
Temperature precision	±1.0 °C	Noise level	≤65 dB(A)
Cooling performance	Reaches 4 °C in 8 minutes	Net weight	85 kg
Control interface	5-inch touch panel	Dimensions (W × D × H)	640 × 610 × 340 mm
Rotor identification	Automatic	Rotor / adapter range	0.2 ml to 750 ml vessels, microplates and selected blood tube / blood bag workflows

Configuration package logic

Host centrifuge

PRO6992 LACE56R base unit
Active refrigeration, -20 °C to +40 °C
Rotor configured separately

Rotor family

Same LACE56 platform rotor portfolio
4 × 250, 300, 500 and 750 ml swing-out rotors
Microplate and blood tube rotors

Application fit

Clinical and blood testing
Biopharmaceutical and cell culture workflows
RIA, molecular chemistry and biosafety laboratories

Specification note: maximum speed, RCF and capacity are not necessarily achieved by the same rotor. Confirm the selected rotor, adapters and vessel ratings in the binding quotation and rotor documentation.

Rotor portfolio

Part 1 of 3 | compatible adapters are shown directly on each rotor card



SKU PRO6945

NCP

12x10 ml Rotor (Rounded) 6000rpm/6321xg

Listed limit: 6000 rpm / 6321 x g

COMPATIBLE ADAPTERS

Direct rotor configuration



SKU PRO6946

4x250ml Swing out rotor (Square cup) 4000rpm/3040xg

Listed limit: 4000 rpm / 3040 x g

COMPATIBLE ADAPTERS

PRO6947 4x4x50ml (Conical bottom)

PRO6948 4x8x15ml (Conical bottom)

PRO6949 4x8x10ml (rounded bottom)

PRO6950 4x14x5ml (rounded bottom)

PRO6951 4x14x1.5/2ml (rounded bottom)

PRO6952 4x10x10ml (blood collection tube)

PRO6953 4x18x5ml (blood collection tube)

PRO6959 4x4x50ml (Conical Bottom)



SKU PRO6954

4x300ml Swing out rotor (4x250ml Conical - bottom Corning bottle) 4000rpm/3040xg

Listed limit: 4000 rpm / 3040 x g

COMPATIBLE ADAPTERS

PRO6955 50 to 300ml for rotor PRO6954 volume at choice



SKU PRO6956

BioSafe

4x500ml Swing out Biosafety Rotor (Rounded) 4000rpm/3500xg

Listed limit: 4000 rpm / 3500 x g

COMPATIBLE ADAPTERS

PRO6958 4x250ml (Rounded)

PRO6959 4x4x50ml (Conical Bottom)

PRO6960 4x100ml (Rounded)

PRO6961 4x9x15ml (Conical Bottom)

PRO6962 4x9x10ml (Rounded)

PRO6963 4x14x5ml (Rounded)

PRO6964 4x14x1.5/2ml

PRO6965 4x12x10ml (Blood collection tube Cap-removing)

PRO6966 4x14x2/5/7 ml (Blood collection tube Cap-removing)

Rotor portfolio

Part 2 of 3 | large bottle and tube formats



SKU PRO6957

4x500ml Swing out Rotor (Rounded) 4000rpm/3500xg

Listed limit: 4000 rpm / 3500 x g

COMPATIBLE ADAPTERS

- PRO6958 4x250ml (Rounded)
- PRO6959 4x4x50ml (Conical Bottom)
- PRO6960 4x100ml (Rounded)
- PRO6961 4x9x15ml (Conical Bottom)
- PRO6962 4x9x10ml (Rounded)
- PRO6963 4x14x5ml (Rounded)
- PRO6964 4x14x1.5/2ml
- PRO6965 4x12x10ml (Blood collection tube Cap-removing)
- PRO6966 4x14x2/5/7 ml (Blood collection tube Cap-removing)



SKU PRO6967

4x750ml Swing out Rotor (Rounded) 4000rpm/3500xg

Listed limit: 4000 rpm / 3500 x g

COMPATIBLE ADAPTERS

- PRO6968 4x500ml (Conical /Round Bottom)
- PRO6969 4x250 ml (Conical /Round Bottom)
- PRO6970 4x3x100 ml (Conical /Round Bottom)
- PRO6971 4x7x50 ml (Conical)
- PRO6972 4x14x15 ml (Conical)
- PRO6973 4x14x10 ml (Rounded)
- PRO6974 4x21x5/6 ml (Rounded)
- PRO6975 4x26x1.5/2 ml (Conical/Rounded)
- PRO6976 4x19x10 ml (Blood collection tube Cap removing)
- PRO6977 4x24x5/7 ml (Blood collection tube Cap removing)



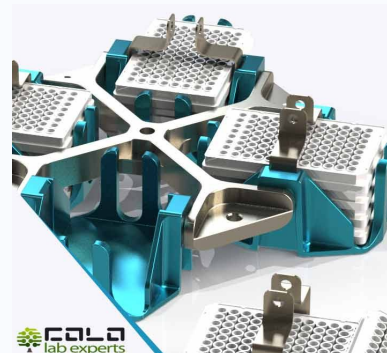
SKU PRO6978

4x750ml Swing out Rotor (Square) 4000rpm/3580xg

Listed limit: 4000 rpm / 3580 x g

COMPATIBLE ADAPTERS

- PRO6979 4x500ml (Rounded)
- PRO6980 4x250ml (Rounded)
- PRO6981 4x3x100ml (Rounded)
- PRO6982 4x7x50ml (Conical)
- PRO6983 4x14x15ml (Conical)
- PRO6984 4x14x10ml (Rounded)
- PRO6985 4x24x5/6ml (Rounded)
- PRO6986 4x30x1.5/2ml (Rounded/Conical)
- PRO6987 4x24x10ml (Blood collection tube cap removing)
- PRO6988 4x30x2/5/7ml (Blood collection tube cap removing)



SKU PRO6989

Swing out Rotor Microplate Holder Rack 4x4x96 4000rpm/3040g

Listed limit: 4000 rpm / 3040 x g

COMPATIBLE ADAPTERS

- Direct rotor configuration

Rotor portfolio

Part 3 of 3 | microplate, blood tube and remaining formats



SKU PRO6990

**96x5/7 ml Swing out Rotor Blood collection Tube
4000rpm/3000xg**

Listed limit: 4000 rpm / 3000 x g

COMPATIBLE ADAPTERS

Direct rotor configuration



SKU PRO6991

**120x5/7 ml Swing out Rotor Blood collection Tube
4000rpm/3500xg**

Listed limit: 4000 rpm / 3500 x g

COMPATIBLE ADAPTERS

Direct rotor configuration



SKU PRO7063

12x10 ml Angle Rotor 6000 rpm / 6321 xg

Listed limit: 6000 rpm / 6321 x g

COMPATIBLE ADAPTERS

Direct rotor configuration

NCP

Configuration note: special-format rotors should be selected according to vessel geometry, loading pattern and required operating speed. Confirm final product photography before catalogue or quotation use.

MANUFACTURER AND SUPPORT

COLO Lab Experts

Polje ob Sotli 4, SI-3255, Slovenia

LACE56R selection should be matched to sample volume, bottle format, tube bottom geometry, target RCF, balancing requirements, biosafety expectation and the required rotor/adaptor combination.

QUICK CONTACT

colo.si

sales@colo.si

+386 64 222 724

Request a quote or rotor configuration guidance

Share the tube format, bottle volume, sample type, preferred throughput, target RCF and whether biosafety sealing is required. COLO can help match the correct LACE56R rotor, bucket and adapter 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

PRO7063 · 12 × 10 ml NCP

PRO6945 · 12 × 10 ml NCP

4 × 750 ml swing-out

QUOTE & TECHNICAL SUPPORT

Request a Quote

Email COLO.Science

Binding specification notice: This document supports product selection and does not replace the binding quotation, order confirmation, manufacturer manual or rotor certificate. Rotor performance is configuration dependent. Confirm SKU, included rotor, buckets, adapters, vessel dimensions, maximum permitted speed/RCF, safety documentation and final images before ordering or operation. Specifications may change without notice.