

AMBIENT HIGH-SPEED LABORATORY CENTRIFUGE · SKU PRO7070

RITACUBA18N

High-speed, multi-rotor laboratory centrifuge engineered for flexible sample separation from microtubes to 100 ml vessels, with automatic rotor recognition, precise speed control and a corrosion-resistant ceramic-coated chamber.

18,500 rpm

maximum speed

27,100 × g

maximum RCF

6 × 100 ml

maximum capacity

±10 rpm

speed accuracy

NCP

Carbon-Fiber Composite Rotor Technology

Lightweight · corrosion-resistant · learn more →

C

Ceramic-Coated Chamber

Durable · smooth · corrosion-resistant ↓



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Controlled separation across a broad sample range

One centrifuge, multiple workflows

Compatible rotor configurations support microtubes, round- and conical-bottom tubes, and higher-volume vessels. This makes the platform suitable for routine and research separation protocols without limiting the laboratory to one fixed rotor format.

Reproducible processing

Speed accuracy of ±10 rpm, programmable acceleration and deceleration, and up to 99 user-defined programs help laboratories standardise frequently repeated methods and reduce operator-dependent variation.

Sample and operator protection

Automatic rotor recognition, imbalance protection, alarm functions and emergency lid release support controlled operation and sample recovery during an unexpected power interruption.

Key engineering features

Automatic rotor recognition

The control system identifies the installed compatible rotor and provides an alarm if the configuration is not accepted, reducing the risk of using an inappropriate speed setting.

Programmable dynamics

Ten acceleration and deceleration levels, adjustable from approximately 20 seconds to 9 minutes, allow gentler handling of gradients and sensitive pellets or faster routine processing.

NCP rotor system

Selected rotors use a carbon nano-polymer composite construction with low mass, high mechanical strength, low thermal conductivity and strong resistance to chemical corrosion.

5-inch HD touchscreen

Clear operating display with storage for 99 custom programs. Optional USB export supports documentation and transfer of centrifugation records.

Rigid, damped construction

Integral T45 high-strength steel body, three-stage vibration absorption and automatic balancing are designed for stable, low-noise bench operation.

Ceramic-coated chamber

The smooth nano-ceramic chamber coating provides an additional corrosion-resistant barrier and simplifies routine cleaning after normal laboratory use.



Laboratory applications

Clinical laboratories

Separation of blood fractions, urine sediments and other validated clinical specimens.

Molecular biology

Pelleting cells, nucleic-acid preparation steps and general microtube workflows.

Biochemistry

Clarification, phase separation and preparation of samples before downstream analysis.

Bioengineering & agriculture

Processing of cell suspensions, culture samples and research specimens.

Rotor, tube and speed must always be selected according to the validated method, sample characteristics and tube manufacturer's limits.

Technical specifications

Model	RITACUBA18N	Order number / SKU	PRO7070
Maximum speed	18,500 rpm	Maximum RCF	27,100 × g
Maximum capacity	6 × 100 ml	Speed accuracy	±10 rpm
Timer	1 s–99 min 59 s / 1 min–99 h 59 min	Stored programs	99 custom programs
Acceleration/deceleration	10 levels; approx. 20 s–9 min	Display	5-inch HD touchscreen
Data export	USB optional	Total power	550 W
Power supply	AC 220 V ±10%, 50 Hz, 10 A	Dimensions (W × D × H)	55 × 47 × 29 cm
Net weight	33 kg	Temperature control	Ambient / non-refrigerated

Compatible rotors and adapter

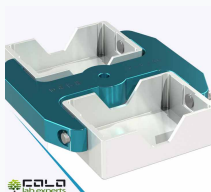
Configuration notice: RITACUBA18N is supplied as a centrifuge unit. The rotor and any required adapter are selected separately according to tube format, sample volume, target RCF and workflow. Maximum instrument performance depends on the installed rotor; never exceed the limits stated for the rotor, adapter or tube.

SKU PRO3376

2 × 2 × 96-well microplate rotor

4,000 rpm · 2,300 × g

Capacity for four 96-well microplates



SKU PRO6945

12 × 10 ml angle rotor

6,000 rpm · 6,321 × g

10 ml rounded-bottom tubes



NCP COMPOSITE ROTOR

SKU PRO3885

12 × 1.5/2 ml angle rotor

16,500 rpm · 21,610 × g

Microtubes: 1.5/2.0 ml



NCP COMPOSITE ROTOR

SKU PRO6935

24 × 1.5/2 ml angle rotor

15,000 rpm · 22,387 × g

Microtubes: 1.5/2.0 ml



NCP COMPOSITE ROTOR

SKU PRO6936

36 × 1.5/2 ml angle rotor

15,000 rpm · 22,262 × g

Microtubes: 1.5/2.0 ml



NCP COMPOSITE ROTOR

SKU PRO6937

48 × 1.5/2 ml angle rotor

12,000 rpm · 16,260 × g

Microtubes: 1.5/2.0 ml



NCP COMPOSITE ROTOR



SKU PRO6938
18 × 5 ml angle rotor
 15,000 rpm · 24,148 × g
 5 ml round-bottom tubes

NCP COMPOSITE ROTOR



SKU PRO6940
12 × 15 ml angle rotor
 11,000 rpm · 15,620 × g
 15 ml conical-bottom tubes; optional 12 × 5 ml adapter

NCP COMPOSITE ROTOR



SKU PRO6934
6 × 50 ml angle rotor
 11,000 rpm · 14,440 × g
 50 ml Falcon-type tubes; configurations for 6 × 15 ml conical or 6 × 10 ml round-bottom tubes

NCP COMPOSITE ROTOR

Rotor image not
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SKU PRO2859
4 × 120 ml angle rotor
 4,000 rpm · 2,683 × g
 Available adapters: 4 × 50 ml and 8 × 15 ml + 1.5 ml

PRO6941 · 12 × 5 ml ADR adapter

Round-bottom tube adapter for use with the PRO6940 rotor, subject to the stated rotor limit of 11,000 rpm / 15,620 × g.

Operational and safety functions

Emergency lid release

Provides controlled access to samples after a power interruption, following the operating manual and only after the rotor has fully stopped.

Multiple operating modes

Timed, momentary/inching, differential-time and gradient centrifugation modes support both routine separation and more specialised protocols.

Aerodynamic rotor design

Optimised baskets and lower-mass rotor construction reduce wind resistance, helping limit noise and energy demand during operation.

Configuration and specification disclaimer

Because RITACUBA18N supports numerous rotor, adapter and tube configurations, this general technical specification is neither exhaustive nor a final definition of the supplied system. Exact performance, capacity, compatibility, included components and operating limits depend on the selected configuration. Only the technical specification issued for the individual device and confirmed with the final quotation or delivery documentation represents the accurate specification of the equipment supplied.

COLO.SCIENCE | CENTRIFUGATION SUPPORT

Product support and configuration

COLO LabExperts

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Send the tube type, sample volume, required capacity and target RCF. COLO Science will verify the RITACUBA18N, rotor and adapter combination before quotation.

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Primary product action: [RITACUBA18N product page](#) · Direct support: sales@colo.si

Specifications may change as part of continuous product development. Rotor compatibility and maximum operating values must be confirmed in the current quotation and operating documentation.