

TABLETOP HIGH-SPEED REFRIGERATED CENTRIFUGE • SKU PRO7071

RITACUBA18R

High-speed refrigerated, multi-rotor laboratory centrifuge engineered for flexible sample separation from microtubes to 100 ml vessels, with intelligent temperature control, rapid cooling, 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

-20 to +40 °C

temperature setting range

NCP

Carbon-Fiber Composite Rotor Technology

Lightweight · corrosion-resistant · learn more →

C

Ceramic-Coated Chamber

Durable · smooth · corrosion-resistant ↓



[View RITACUBA18R product](#)

[Open centrifuges catalogue](#)

[Browse centrifuge products](#)

[Download PDF specification](#)

Controlled separation across a broad sample range

One refrigerated centrifuge, multiple workflows

Compatible rotor configurations support microtubes, round- and conical-bottom tubes, and higher-volume vessels. The -20 to +40 °C temperature setting range supports temperature-sensitive 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, intelligent temperature control, and storage for 15 application groups 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

Intelligent temperature control

The refrigeration system provides a temperature setting range from -20 to $+40$ °C and supports accurate control across common 4 to 40 °C operating scenarios.

HD touchscreen and method storage

Clear touchscreen operation with storage for 15 application groups enables one-touch recall of frequently used centrifugation settings.

Rigid, damped construction

Single-stamped T45 high-strength steel construction, three-stage rubber vibration absorption and automatic balancing support stable operation at noise levels up to 65 dB(A).

Rapid cooling

Under the stated test conditions, the chamber can cool from 25 °C to 4 °C in approximately six minutes, reducing preparation time for temperature-sensitive workflows.

Programmable dynamics

Ten adjustable acceleration and deceleration levels with soft start/stop control help protect gradients and sensitive pellets from secondary mixing.

NCP rotor and ceramic chamber technologies

Selected carbon nano-polymer composite rotors combine low mass, high strength, low thermal conductivity and corrosion resistance. The smooth nano-ceramic chamber coating provides an additional corrosion-resistant barrier.



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	RITACUBA18R	Order number / SKU	PRO7071
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	15 application groups
Acceleration/deceleration	10 levels; approx. 20 s–9 min	Display	5-inch HD touchscreen
Data export	USB optional	Total power	1,200 W
Power supply	AC 220 V ±10%, 50 Hz, 16 A	Dimensions (W × D × H)	63 × 40 × 29 cm
Net weight	55 kg	Temperature setting range	–20 to +40 °C
Rapid cooling	25 to 4 °C in approx. 6 min	Noise level	≤65 dB(A)
Refrigerant	Environmentally considerate refrigerant		

Compatible rotors and adapter

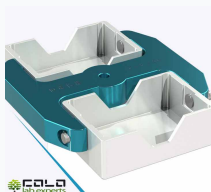
Configuration notice: RITACUBA18R is supplied as a refrigerated centrifuge unit. The rotor and any required adapter are selected separately according to tube format, sample volume, target RCF, temperature requirement and workflow. Maximum instrument performance depends on the installed rotor; never exceed 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
assigned in the
controlled CSV
export

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, jog, differential and gradient centrifugation modes support routine separation and more specialised protocols.

Refrigerated rotor workflow

Low-thermal-conductivity NCP rotor construction, a one-turn rotor-lid design and an environmentally considerate refrigerant support convenient, temperature-controlled operation.

Configuration and specification disclaimer

Because RITACUBA18R 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, temperature behaviour, 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

Polje ob Sotli 4

SI-3255 Slovenia

Email: sales@colo.si

WhatsApp / Viber: +386 70 713 437

Send the tube type, sample volume, required capacity, target RCF and operating temperature. COLO Science will verify the RITACUBA18R, rotor and adapter combination before quotation.

[View RITACUBA18R product](#)

[Centrifuges catalogue](#)

[Centrifuge overview](#)

[Request a quote / contact](#)

Primary product action: [RITACUBA18R 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.