

TABLETOP HIGH- AND LOW-SPEED CENTRIFUGE · SKU PRO7072

# RITACUBA20N

Versatile high- and low-speed laboratory centrifuge engineered for sample volumes from 2 to 250 ml, with automatic rotor detection, precise speed control, extensive method storage and a corrosion-resistant nano-ceramic-coated chamber.

**20,000 rpm**  
maximum speed

**29,060 × g**  
maximum RCF

**4 × 250 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, a broad 2–250 ml sample range

Compatible rotor configurations support microtubes, round- and conical-bottom tubes, blood collection tubes and higher-volume vessels. The platform covers both high-speed microtube work and lower-speed, higher-capacity separation.

### Reproducible processing

Speed accuracy of ±10 rpm, ten acceleration/deceleration levels and storage for up to 999 custom 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 detection

The control system detects the installed compatible rotor and provides a timely alert, helping reduce the risk of selecting an inappropriate operating speed.

## High- and low-speed flexibility

Interchangeable angle and swing-out rotors support high-speed microtube processing and lower-speed, higher-capacity workflows with vessels up to 250 ml.

## 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 60 dB(A).

## 5-inch HD touchscreen

Clear touch-panel operation with storage for up to 999 custom programs. Optional USB export supports documentation and transfer of centrifugation records.

## 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 nano-ceramic chamber coating provides additional resistance to corrosion and rust.



## 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                     | RITACUBA20N                         | Order number / SKU     | PRO7072                   |
| Maximum speed             | 20,000 rpm                          | Maximum RCF            | 29,060 × g                |
| Maximum capacity          | 4 × 250 ml                          | Speed accuracy         | ±10 rpm                   |
| Timer                     | 1 s–99 min 59 s / 1 min–99 h 59 min | Stored programs        | Up to 999 custom programs |
| Acceleration/deceleration | 10 adjustable levels                | Display                | 5-inch HD touchscreen     |
| Data export               | USB optional                        | Total power            | 700 W                     |
| Power supply              | AC 220 V ±10%, 50 Hz, 10 A          | Dimensions (W × D × H) | 55 × 47 × 31 cm           |
| Net weight                | 38 kg                               | Noise level            | ≤60 dB(A)                 |
| Temperature control       | Ambient / non-refrigerated          |                        |                           |

## Compatible rotors and adapter

**Configuration notice:** RITACUBA20N 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 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**

**SKU PRO6946****4 × 250 ml swing-out rotor**

4,000 rpm · 3,040 × g

Square cups; adapters support 50, 15, 10, 5 and 1.5 ml tubes and blood collection tubes

**SKU PRO2852****6 × 100 ml angle rotor**

11,000 rpm · 15,354 × g

Adapters for 6 × 50 ml, 6 × 15 ml and 6 × 3 × 10 ml tubes



**NCP COMPOSITE ROTOR**

**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

Rotor image not  
assigned in the  
controlled CSV  
export

**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.

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## 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.

### Rotor-lid and vibration control

A one-turn NCP rotor-lid design, three-stage rubber shock absorption and automatic balancing support convenient, stable operation.

### Configuration and specification disclaimer

Because RITACUBA20N 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 RITACUBA20N, rotor and adapter combination before quotation.

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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.