

HIGH-SPEED MICROCENTRIFUGE

# RITACUBA16N

Compact benchtop high-speed platform for 1.5 / 2 ml microtubes, 5 ml and 10 ml round-bottom tubes, 15 ml conical tubes, and 50 ml tube formats.

The RITACUBA16N is a compact laboratory microcentrifuge built for molecular biology, PCR laboratories, molecular chemistry, bacterial separation, and routine sample preparation workflows. It combines up to 16,500 rpm, automatic rotor identification, 99 stored programs, and a compact desktop footprint with an eight-rotor compatibility range.

16,500 RPM

24,148 × G

AMBIENT OPERATION

8 ROTORS

5-INCH TOUCH SCREEN

ROTOR AUTO-ID

10 ACCEL / DECEL

99 PROGRAMS

Document type: **Technical Specification Sheet**

Product: **RITACUBA16N High-Speed Microcentrifuge**

Product number: **To be confirmed**

Source consolidation: **RITACUBA16N image reference + RITACUBA rotor matrix + Unit Accessories report dated 08-07-2026**



RITACUBA16N high-speed microcentrifuge, compact benchtop format.



Representative compatible rotor: PRO6934, 6 × 50 ml format.

MODEL  
**RITACUBA16N**

MAX CAPACITY  
**6 × 50 ml**

CONTACT  
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# Technical Specification

Desktop high-speed microcentrifuge, up to 16,500 rpm and 24,148 × g

- MAX SPEED 16,500 RPM
- MAX RCF 24,148 × G
- MAX CAPACITY 6 × 50 ML
- AMBIENT 5-40 °C
- 99 USER PROGRAMS

## Performance and operating environment

### Performance

Parameter	Specification
Max speed	16,500 rpm
Max RCF	24,148 × g
Max capacity	6 × 50 ml
Standard rotor capacity	36 × 1.5 / 2 ml
Acceleration levels	10
Deceleration levels	10
Stored programs	99 user-defined programs
Instant centrifugation	Supported

### Operating environment

Parameter	Specification
Ambient operating temperature	5-40 °C
Operating mode	Ambient high-speed centrifugation
Chamber	Stainless steel bowl
Recommended environment	Stable indoor laboratory conditions, away from direct heat sources
Sample handling note	Validate allowed run time and sample heat load in the laboratory SOP

**SPEED RANGE**  
 Up to 16,500 rpm

**RELATIVE FORCE**  
 Up to 24,148 × g

**TUBE RANGE**  
 1.5 / 2 ml to 50 ml

**METHOD MEMORY**  
 99 programs

Performance data are presented separately from construction and dimensional data so the PDF remains legible when converted from HTML. RITACUBA16N is treated as an ambient-operation microcentrifuge version.

# Control, Safety and Construction

Touch control, rotor recognition, balance protection and dimensional data

## Control and display

Parameter	Specification
Display	5-inch touch screen
Speed accuracy	1 rpm
RCF accuracy	1 × g
Time accuracy	1 second
Live parameters shown	Speed, RCF, time, acceleration, deceleration and other parameters
Parameter change during run	Yes, without stopping

### Workflow notes

**Stored methods:** 99 user-defined programs support repeated centrifugation routines.

**Instant centrifugation:** quick-start operation is available for short routine runs.

**Real-time adjustment:** parameters can be changed during operation without stopping the run.

## Construction and safety

Parameter	Specification
Structure	Desktop
Body material	High-strength steel
Rotor material	NCP composite material
Rotor recognition	Automatic rotor identification
Damping / balance	3-level rubber damping with automatic balance and imbalance switch function
Emergency lid release	Supported in unexpected power failure
Noise	54 dB(A)
Certification	CE, ISO

## Dimensions and general data

Parameter	Specification
Model	RITACUBA16N
Product number	To be confirmed
Dimensions (W × D × H)	620 × 330 × 270 mm
Single package	730 × 450 × 440 mm
Net weight	48 kg

Parameter	Specification
Application fields	Industry, school, hospital, laboratory, institute
Surface finish	Fine grain coating process
Executive standard	ISO9001
Transport package	Cartons and wooden pallets
HS code	84211900

# Compatible Rotors

Eight fixed-angle rotor options for the RITACUBA16N platform



**PRO3885**  
12 × 1.5 / 2 ml microtube rotor  
16,500 rpm | 21,610 × g



**PRO6935**  
24 × 1.5 / 2 ml microtube rotor  
15,000 rpm | 22,387 × g



**PRO6936**  
36 × 1.5 / 2 ml high-throughput rotor  
15,000 rpm | 22,262 × g



**PRO6937**  
48 × 1.5 / 2 ml high-capacity rotor  
12,000 rpm | 16,260 × g



**PRO6938**  
18 × 5 ml round-bottom tube rotor  
15,000 rpm | 24,148 × g



**PRO6939**  
12 × 10 ml round-bottom tube rotor  
13,000 rpm | 20,500 × g



**PRO6940**  
12 × 15 ml conical-bottom tube rotor  
11,000 rpm | 15,620 × g



**PRO6934**  
6 × 50 ml sharp / round-bottom rotor  
11,000 rpm | 14,400 × g

Rotor visuals are separated from the detailed matrix to keep the PDF page readable. Rotor image URLs and compatibility data are retained from the RITACUBA rotor matrix and should be confirmed for the final RITACUBA16N sales configuration.

# Rotor Matrix and Adapters

Selection support for tube formats, throughput, speed, and RCF requirements

## Rotor matrix

Rotor No.	Capacity	Max speed	Max RCF	Angle	Order number
PRO3885	12 × 1.5 / 2 ml	16,500 rpm	21,610 × g	45°	Hn011200020
PRO6935	24 × 1.5 / 2 ml	15,000 rpm	22,387 × g	45°	HNN012400020
PRO6936	36 × 1.5 / 2 ml	15,000 rpm	22,262 × g	45°	HNN013600020
PRO6937	48 × 1.5 / 2 ml	12,000 rpm	16,260 × g	45°	HNN014800020
PRO6938	18 × 5 ml, round bottom	15,000 rpm	24,148 × g	45°	HNN011800050
PRO6939	12 × 10 ml, round bottom	13,000 rpm	20,500 × g	45°	HNN011200100
PRO6940	12 × 15 ml, conical bottom	11,000 rpm	15,620 × g	30°	HNN011200150
PRO6934	6 × 50 ml, sharp / round bottom	11,000 rpm	14,400 × g	30°	HNN010600500

## Compatible adapters

Adapter No.	Capacity	Max speed	Max RCF	Order number
PRO6941	12 × 5 ml, round bottom	11,000 rpm	15,620 × g	B011200150
PRO3189	6 × 15 ml, conical bottom	11,000 rpm	14,400 × g	B6005006015
PRO6942	6 × 10 ml, round bottom	11,000 rpm	14,400 × g	B6005006010

## Technology and workflow notes

**NCP composite rotor platform:** lightweight rotor construction, high strength, slower heat conduction, and corrosion resistance.

**Automatic rotor identification:** supports safer setup by reducing the risk of selecting an incorrect rotor profile.

**Ambient operation:** use under stable laboratory conditions and validate run time for temperature-sensitive samples.

**Soft start / stop control:** 10 acceleration and 10 deceleration levels help adapt the run profile to sensitive samples.

## Ordering information

Item	Value
<b>Model</b>	RITACUBA16N
<b>Product number</b>	To be confirmed
<b>Product type</b>	High-speed microcentrifuge
<b>Rotor range</b>	Eight compatible fixed-angle rotors
<b>Main selling point</b>	Compact high-speed platform with broad tube-format compatibility

### Selection note

**Tube format first:** choose the rotor by tube geometry and nominal volume before comparing speed or RCF.

**Check tube limits:** final operating speed must also respect the tube manufacturer's rated limits.

**Balance requirements:** all rotor configurations must be loaded symmetrically and according to the laboratory SOP.

MANUFACTURER AND SUPPORT

**COLO Lab Experts**

Polje ob Sotli 4, SI-3255, Slovenia

RITACUBA16N selection should be matched to sample volume, tube geometry, target RCF, balancing requirements, ambient laboratory conditions, and required run time.

QUICK CONTACT

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**Request a quote or rotor configuration guidance**

Tell us the preferred tube format, sample volume range, throughput, ambient operating conditions, run time and target relative centrifugal force. COLO can help match the correct rotor and adapter configuration for routine laboratory use.

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**Binding specification notice:** The information in this document consolidates the RITACUBA16N image reference, compatible rotor and adapter matrix, and the Unit Accessories report dated 08-07-2026. 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.