

HIGH-SPEED REFRIGERATED CENTRIFUGE

RITACUBA16R

Compact benchtop 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 RITACUBA16R is a refrigerated laboratory centrifuge 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

REFRIGERATED

8 ROTORS

5-INCH TOUCH SCREEN

ROTOR AUTO-ID

10 ACCEL / DECEL

99 PROGRAMS

Document type: **Technical Specification Sheet**

Product: **RITACUBA16R High-Speed Refrigerated Centrifuge**

Product number: **PRO6933**

Source consolidation: **RITACUBA16R HTML product sheet + Unit Accessories report dated 08-07-2026**



RITACUBA16R high-speed refrigerated centrifuge, compact benchtop format.



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

MODEL
RITACUBA16R

MAX CAPACITY
6 × 50 ml

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Technical Specification

Desktop refrigerated centrifuge, up to 16,500 rpm and 24,148 × g

MAX SPEED 16,500 RPM

MAX RCF 24,148 × G

MAX CAPACITY 6 × 50 ML

R134A REFRIGERANT

99 USER PROGRAMS

Performance and cooling specifications

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

SPEED RANGE

Up to 16,500 rpm

RELATIVE FORCE

Up to 24,148 × g

Cooling system

Parameter	Specification
Refrigerant	R134a
Cooling chamber	Stainless steel bowl
Temperature stability	Can remain stabilized at 4 °C at highest speed
Rapid pre-cooling	Approx. 25 °C to 4 °C within 6 minutes
Temperature logic	Intelligent control adjusts cooling according to lid open / closed state

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.

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, temperature, 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	RITACUBA16R
Product number	PRO6933
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 RITACUBA16R platform



COLO
LAB EXPERTS

PRO3885

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



COLO
LAB EXPERTS

PRO6935

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



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PRO6936

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



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PRO6937

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



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PRO6938

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



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PRO6939

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



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PRO6940

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



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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. Product numbers and image URLs are aligned with the Unit Accessories report for PRO6933.

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.

Refrigerated operation: rapid pre-cooling and stabilized low-temperature operation support 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
Model	RITACUBA16R
Product number	PRO6933
Product type	High-speed refrigerated centrifuge
Rotor range	Eight compatible fixed-angle rotors
Main selling point	Compact refrigerated 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

RITACUBA16R selection should be matched to sample volume, tube geometry, target RCF, balancing requirements, and required cooling profile.

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Request a quote or rotor configuration guidance

Tell us the preferred tube format, sample volume range, throughput, cooling requirement, 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 existing RITACUBA16R technical HTML, the 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.