Colo Science
Laboratory & Scientific Equipment

COLO.SCIENCE · TECHNICAL SPECIFICATION

MBINCOS CO2 Shaking Incubators

4 to 65 °C · CO2 0–20 % · Humidity up to 95 % · 10–300 rpm · Vertical or Stackable

MBINCOS CO2 shaking incubators combine a shaking incubator and a CO2 incubator in one unit. The chamber holds temperature from 4 °C to 65 °C and CO2 from 0 to 20 %, with natural humidity up to 95 %, while the tray shakes from 10 to 300 rpm. Cells, suspension cultures and fermentation can run shaken or static in the same unit. Two designs: the vertical MBINCOS-200R with two trays and the stackable MBINCOS-228R, where up to three layers each have their own control.

4 TO 65 °C | CO2 0–20 % | IR CO2 SENSOR | HUMIDITY UP TO 95 % | 10–300 RPM | 7-INCH TOUCH SCREEN | UV LAMP | STACKABLE (228R)

Document type: **Technical Specification Sheet**
Product family: **MBINCOS-200R / MBINCOS-228R CO2 shaking incubators**
Models / SKU: **MBINCOS-200R · PRO7363 · MBINCOS-228R · PRO7364**
Format: **A4 landscape · CORE-TECHSPEC 1.2**

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Choose the design

VERTICAL · 2 TRAYS
MBINCOS-200R · PRO7363
4 to 65 °C · CO2 0–20 % · 10–300 rpm

STACKABLE · PER LAYER
MBINCOS-228R · PRO7364
up to 3 layers · tray 930 × 530 mm



MBINCOS-228R · three stacked layers, each with its own control



MBINCOS-200R · vertical design, two trays

CO2
0–20 %

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MBINCOS · technical specification

CO2 shaking incubators, 4 to 65 °C, CO2 0–20 %, humidity up to 95 %, 10–300 rpm, vertical or stackable

4–65 °C | CO2 0–20 % | 10–300 RPM | 95 % RH | TOUCH SCREEN — Shaking incubator and CO2 incubator in one unit

Product Overview

Application profile

Cell culture: suspension cells in shake flasks under CO2 — CHO, HEK, insect cells.

Microbiology: aerobic and microaerophilic cultures, fermentation and seed cultures.

Static and shaken: one unit runs as a CO2 incubator or as a CO2 shaker.

Large series: stack up to three MBINCOS-228R layers, each with its own conditions.

Core technical summary

Parameter	Specification
Models	MBINCOS-200R · MBINCOS-228R
Temperature range	4 to 65 °C
Uniformity	±0.5 °C at 37 °C
CO2 range	0–20 % · IR sensor
Humidity	natural, up to 95 % RH
Speed	10–300 rpm · ±1 rpm
Orbit	Ø26 mm · Ø50 mm optional
Supply	220 V ±10 %, 50/60 Hz

Key features

CO2: imported infrared sensor, 0–20 %, 0.1 % resolution; solenoid valve and inlet filter (99.99 % at 0.3 µm).

Temperature: 4 °C to 65 °C, ±0.5 °C at 37 °C; inverter cooling without frost.

Humidity: natural humidification tray, up to 95 % RH.

Shaking: servo motor, 10–300 rpm, ±1 rpm; orbit Ø26 mm (Ø50 mm optional); forward, reverse and stop program.

Control: 7-inch true-colour touch screen; fixed value or program; three user levels.

Data: history and curves of temperature, speed, humidity and CO2 up to one year; USB export, printer option.

Door: double tempered glass window, heated door against condensation; shaking stops when the door opens.

Safety: over-temperature alarm and cut-off, fault self-diagnosis, power-failure memory; UV lamp and light.

TEMPERATURE	CO2	SPEED	HUMIDITY
4 to 65 °C	0–20 %	10–300 rpm	up to 95 %

Values measured without load at 20 °C ambient and 50 % RH. Working ambient temperature 5–25 °C. Suitability for a specific method is confirmed in the COLO.Science quotation.

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Models Compared

Parameter	MBINCOS-200R	MBINCOS-228R
Order code (SKU)	PRO7363	PRO7364
Design	Vertical, 2 trays	Stackable, per layer (up to 3)
Tray size	2 × 439 × 528 mm	930 × 530 mm
Flask capacity (max.)	250 ml × 25 · 500 ml × 16 · 1000 ml × 9 · 2000 ml × 6	250 ml × 65 · 500 ml × 45 · 1000 ml × 24 · 2000 ml × 15
Exterior W × D × H	740 × 780 × 1260 mm	1500 × 920 × 600 mm per layer

Technical Specifications · common to both models

Temperature, CO2 and control	Value
Temperature range	4 °C to 65 °C
Resolution	0.1 °C
Uniformity	±0.5 °C at 37 °C
CO2 range / resolution	0–20 % · 0.1 %
CO2 sensor	far-infrared (IR)
Humidity	natural, up to 95 % RH
Control	7-inch touch screen, fixed value or program
Timer	0–999 h 59 min, scheduled start

Shaking and construction	Value
Shaking	orbital, servo motor
Speed	10–300 rpm, ±1 rpm
Orbit	Ø26 mm standard, Ø50 mm optional
Chamber	mirror stainless steel, rounded corners
Door	double tempered glass window, heated door
Safety	over-temperature alarm and cut-off, door switch, power-failure memory
Ambient	5–25 °C
Supply	220 V ±10 %, 50/60 Hz

Flask capacity with standard clamps; other clamps and a universal spring tray on request. Values measured without load. Dimensions W × D × H.

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Ordering, Configuration Guidance and Support



MBINCOS CO2 shaking incubators

Ordering information

Item	SKU
MBINCOS-200R · CO2 shaking incubator · vertical, 2 trays	PRO7363
MBINCOS-228R · CO2 shaking incubator · stackable, per layer (up to 3)	PRO7364
Options: printer, RS485 remote control, mobile app, Ø50 mm orbit, other clamps	on request

Configuration checklist

Volume: number and size of flasks per run → tray size and model.

Space: one vertical unit, or up to three stacked layers with different conditions.

CO2: CO2 gas supply with pressure regulator at the installation site.

Room: ambient 5–25 °C, separate earthed 220 V socket.

SUPPLIER AND SUPPORT

COLO Lab Experts

Polje ob Sotli 4, SI-3255, Slovenia

Selection guidance: Send the culture, the flasks per run, the temperature, CO2 and speed. COLO.Science will confirm the model, the clamps and the delivery time.

QUICK CONTACT

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Ask us:
Price and current discount, delivery time, installation, CO2 connection and service — write to sales@colo.si or call us.

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