

ORSHA75 • ORSHA125

Orbital Shaker-Incubators • Benchtop • 20 mm Orbit • RT+5 °C to 60 °C • Exchangeable Platforms

ORSHA75 and ORSHA125 orbital shaker-incubators are compact benchtop units that shake and incubate in one chamber. A brushless DC motor drives the platform on a 20 mm orbit, and a microprocessor controller holds the temperature from 5 °C above room temperature up to 60 °C. Exchangeable platforms take flasks, tubes, microplates or Petri dishes. Shaking and heating stop as soon as the lid is opened, and the run restarts by itself after a power cut.

RT+5 TO 60 °C

±0.5 °C

50-300 RPM

ORBIT 20 MM

BRUSHLESS DC MOTOR

LID SAFETY STOP

AUTO RESTART

EXCHANGEABLE PLATFORMS

LCD

Document type: **Technical Specification Sheet**

Product family: **ORSHA75 / ORSHA125 compact orbital shaker-incubators**

Models / SKU: **ORSHA75 • PRO4550 | ORSHA125 • PRO4559**

Format: **A4 landscape • CORE-TECHSPEC 1.2**

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 **Choose the size**

COMPACT

ORSHA75 • PRO4550

platform 230 × 230 mm • 50-300 rpm • 4 kg • 7 platforms

LARGER

ORSHA125 • PRO4559

platform 350 × 350 mm • 50-250 rpm • 10 kg • 4 platforms



ORSHA75 • compact shaker-incubator, platform 230 × 230 mm



ORSHA125 • larger chamber, platform 350 × 350 mm

PLATFORMS

230 × 230 • 350 × 350 mm

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ORSHA75 • ORSHA125 • technical specification

Compact benchtop orbital shaker-incubators, RT+5 °C to 60 °C, 20 mm orbit, brushless DC motor, exchangeable platforms for flasks, tubes, plates and dishes

RT+5 TO 60 °C 20 MM ORBIT 50-300 RPM LID SAFETY STOP AUTO RESTART — Shaker and incubator in one compact unit

Product Overview

Application profile

Microbiology: shake-flask cultures of bacteria and yeast at controlled temperature.

Immunoassays: ELISA and deep-well plates incubated with shaking (ORSHA75, PF-6).

Tubes: 15 ml and 50 ml tubes in clamp platforms (ORSHA75, PF-3 and PF-4).

Small labs and teaching: a shaker and an incubator in one compact benchtop unit.

Core technical summary

Parameter	Specification
Models	ORSHA75 • ORSHA125
Platform size	230 × 230 • 350 × 350 mm
Temperature range	RT+5 to 60 °C
Accuracy / uniformity	≤ ±0.5 °C at 37 °C
Speed	50–300 • 50–250 rpm
Orbit	20 mm
Load capacity	4 kg • 10 kg
Power	350 W • 600 W
Supply	AC 220 V, 50/60 Hz

Key features

Shaking: orbital, 20 mm; ORSHA75 50–300 rpm, ORSHA125 50–250 rpm.

Motor: direct brushless DC motor for gentle, reliable shaking.

Temperature: control RT+5 °C to 60 °C, accuracy and uniformity ≤ ±0.5 °C at 37 °C.

Display: LCD shows time, temperature and speed; easy setup of all three.

Timer: 1 min to 99 h 59 min, or continuous.

Safety: heating and shaking stop when the lid opens; over-heating protection.

Restart: the run resumes automatically after a power failure.

Calibration: built-in temperature calibration function.

TEMPERATURE

RT+5 to 60 °C

SPEED

50–300 rpm

ORBIT

20 mm

PLATFORMS

7 • 4 types

RT = room temperature. Values are typical; temperature accuracy and uniformity measured at 37 °C. Suitability for a specific method is confirmed in the COLO.Science quotation.

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Models Compared

Parameter	ORSHA75 • PRO4550	ORSHA125 • PRO4559
Speed range	50 to 300 rpm	50 to 250 rpm
Orbit	20 mm	20 mm
Platform size	230 × 230 mm	350 × 350 mm
Internal chamber height	182 mm	325 mm
Load capacity	4.0 kg	10.0 kg
Heating time	≤ 15 min, 25 → 60 °C	≤ 20 min, 25 → 60 °C
Power	350 W	600 W
Exterior W × D × H	320 × 421 × 338 mm	632 × 502 × 512 mm
Weight	18.5 kg	41 kg
Platforms available	7 (PF-1 to PF-7)	4 (T1 to T4)

Technical Specifications • common to both models

Temperature and time	Value	Drive, control and safety	Value
Temperature setting range	0 °C to 60 °C	Drive	direct brushless DC motor
Temperature control range	RT+5 °C to 60 °C	Display	LCD: time, temperature, speed
Temperature accuracy	≤ ±0.5 °C at 37 °C	Lid	transparent acrylic; shaking and heating stop when opened
Temperature uniformity	≤ ±0.5 °C at 37 °C	Protection	over-heating protection
Display resolution	0.1 °C	Power failure	automatic restart
Timer	1 min to 99 h 59 min, or continuous	Supply	AC 220 V, 50/60 Hz; fuse 250 V 3 A Ø5 × 20

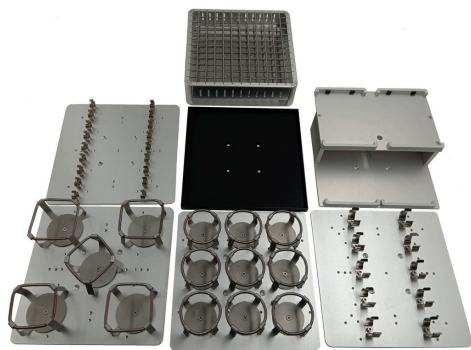
RT = room temperature. Dimensions W × D × H. Heating time measured from 25 °C to 60 °C. Values are typical.

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Exchangeable Platforms

ORSHA75 • platforms 230 × 230 mm

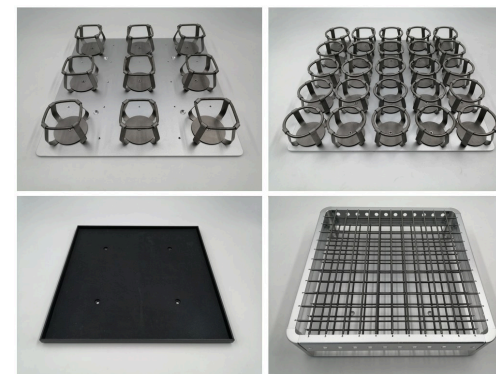
Type	SKU	Holds
PF-1	PRO4551	Platform with clamps for 5 × 250 ml conical flasks
PF-2	PRO4552	Platform with clamps for 9 × 100 ml conical flasks
PF-3	PRO4553	Platform with clamps for 10 × 50 ml tubes
PF-4	PRO4554	Platform with clamps for 18 × 15 ml tubes
PF-5	PRO4556	Platform with spring holder
PF-6	PRO4557	Platform for 4 ELISA or deep-well plates
PF-7	PRO4558	Flat platform for 5 Petri dishes



ORSHA75 platforms PF-1 to PF-7

ORSHA125 • platforms 350 × 350 mm

Type	SKU	Holds
T1	PRO4560	Platform with clamps for 9 × 250 ml conical flasks
T2	PRO4561	Platform with clamps for 25 × 100 ml conical flasks
T3	PRO4562	Flat platform for 16 Petri dishes
T4	PRO4563	Platform with spring holder



ORSHA125 platforms T1 to T4

Good to know

Order a platform: the main unit is supplied without a platform; choose at least one.

Spring holder: the most flexible choice for mixed flask and bottle sizes.

Load: keep within 4 kg (ORSHA75) or 10 kg (ORSHA125), spread evenly.

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ORSHA125 orbital shaker-incubator with spring holder platform

Ordering information

Item	SKU
ORSHA75 orbital shaker-incubator, main unit, 50–300 rpm, RT+5 to 60 °C	PRO4550
ORSHA125 orbital shaker-incubator, main unit, 50–250 rpm, RT+5 to 60 °C	PRO4559
Platforms: ORSHA75 PF-1 to PF-7 · ORSHA125 T1 to T4 (see page 4)	PRO4551–4563

Configuration checklist

Vessels: flask size and number, tubes, plates or dishes decide the model and the platform.

Speed: up to 300 rpm with ORSHA75, up to 250 rpm with ORSHA125.

Temperature: RT+5 °C to 60 °C; for cooling below room temperature see ORSHAHC.

Space: ORSHA75 needs only 320 × 421 mm of bench.

Supply: AC 220 V; confirm the plug type for your country.

SUPPLIER AND SUPPORT

COLO Lab Experts

Polje ob Sotli 4, SI-3255, Slovenia

Selection guidance: Send the vessels, the number per run, the temperature and the speed. COLO.Science will confirm the model, the platform and the delivery time.

QUICK CONTACT

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COLO.SCIENCE · MICROBIOLOGY SUPPORT

Which size and which platform?

Send the vessels and the number per run. COLO.Science will propose the model and the platform and confirm them in the quotation.

Web: colo.si

Ask us:

Price and current discount, delivery time, installation, application support and service — write to sales@colo.si or call us.

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