

ALEMADR-MS

Thermo Shaker Incubator • Modular Blocks • 200–1800 rpm • 3 mm orbit

ALEMADR-MS Thermo Shaker Incubator is a dry block thermo shaker for microtubes, PCR plates, ELISA plates and centrifuge tubes from 0.2 ml to 50 ml. Temperature is held under PID control from RT+5 °C to 100 °C with an accuracy of $\leq \pm 0.3$ °C, while shaking runs from 200 to 1800 rpm on a 3 mm orbit. Eleven interchangeable blocks cover the tube and plate formats a protocol moves between, so one bench position serves the whole sample-preparation range.

DRY BLOCK 200–1800 RPM 3 MM ORBIT 0 °C TO 100 °C SETTING RT+5 °C TO 100 °C CONTROL

$\leq \pm 0.3$ °C ACCURACY 11 BLOCK OPTIONS BRUSHLESS DC MOTOR SKU PRO4306

Document type: **Technical Specification Sheet**

Product: **ALEMADR-MS Thermo Shaker Incubator**

Main unit SKU: **PRO4306**

Format: **A4 landscape • CORE-TECHSPEC 1.0**

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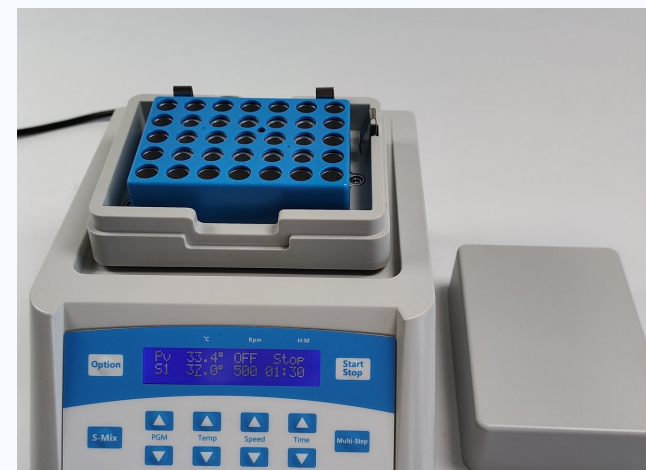
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ALEMADR-MS • thermo shaker incubator • main unit • SKU PRO4306



ALEMADR-MS • modular block area • eleven block formats

MODEL

ALEMADR-MS

ADDRESS / HQ

**Polje ob Sotli 4
SI-3255, Slovenia**

CONTACT

**sales@colo.si
+386 70 713 437**

ALEMADR-MS • technical specification

Dry block thermo shaker incubator with eleven interchangeable blocks, 0.2 ml to 50 ml

LCD DISPLAY

PID CONTROL

11 BLOCKS

0.2-50 ML

3 MM ORBIT

BRUSHLESS DC MOTOR

— One instrument for microtube, PCR plate, ELISA plate and large centrifuge tube work



Product Overview

Application profile

Sample incubation: controlled dry-block temperature for tubes and plates, without a water bath.

Enzymatic reactions: restriction digests, ligations and reverse transcription at a fixed temperature with movement.

PCR preparation: sample preparation and controlled mixing before thermal cycling.

Plate work: ELISA plate and PCR plate formats through dedicated block seats.

Larger volumes: 5, 10, 15 and 50 ml centrifuge tubes through the large-tube blocks.

Key features

Intuitive LCD display: speed, time and temperature set and shown in real time.

PID temperature control: $\leq \pm 0.3$ °C accuracy and $\leq \pm 0.3$ °C uniformity, 0.1 °C on the display.

Exchangeable blocks: eleven block formats for a wide range of tube and plate sizes.

Brushless DC motor: quiet, durable and maintenance-free.

Uniform thermal transfer: precision wells for even contact with the tube wall.

Automatic fault detection: fault detection with buzzer alarm, and a temperature calibration function.

Safety: built-in over-temperature protection.

Core technical summary

Parameter	Specification
Model	ALEMADR-MS
Product type	Dry block thermo shaker incubator
Shaking speed	200 to 1800 rpm
Orbit	3 mm
Temperature setting range	0 °C to 100 °C
Temperature control range	RT+5 °C to 100 °C
Temperature accuracy	$\leq \pm 0.3$ °C
Dimensions	260 × 195 × 150 mm
Weight	7.0 kg

Why the block range matters

Eleven formats: from 96 × 0.2 ml down to 6 × 50 ml, on one instrument.

0.2 ml to 50 ml: the same bench position covers microtube work and large conical tubes.

Mixed block: one body carries 20 × 1.5 ml and 15 × 0.5 ml at the same time.

Speed is matched to the block: large-tube blocks are rated lower than the instrument maximum, listed on page 4.

SPEED

200–1800 rpm

TEMP. SETTING

0 °C to 100 °C

HEATING

≤ 12 min

BLOCKS

11 formats

RT = room temperature. Block compatibility, tube type, plate type and protocol settings are confirmed in the COLO.Science quotation.

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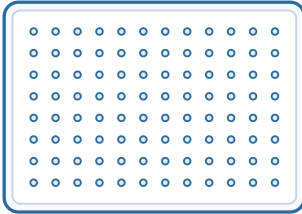
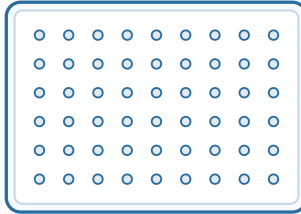
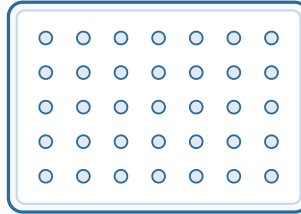
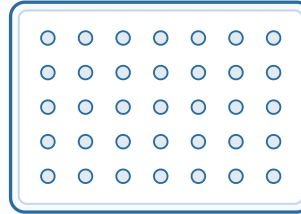
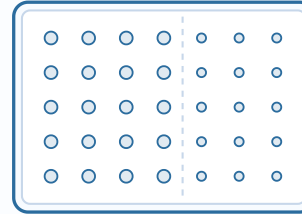
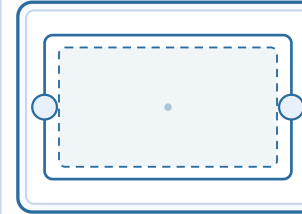
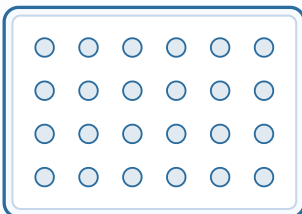
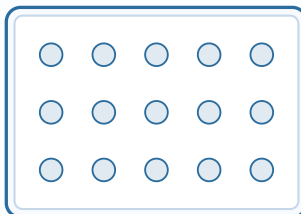
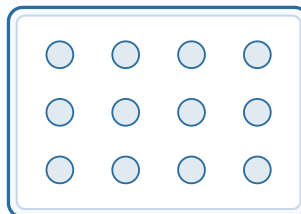
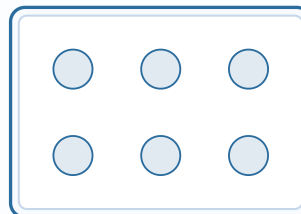
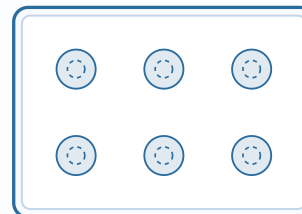
Technical Specifications

Parameter	ALEMADR-MS	Parameter	ALEMADR-MS
Temperature setting range	0 °C to 100 °C	Time range	1 min to 99 min 59 s / ∞
Temperature control range	RT+5 °C to 100 °C	Motor	Brushless DC
Temperature accuracy	≤ ±0.3 °C	Display	LCD, speed · time · temperature
Temperature uniformity	≤ ±0.3 °C	Block options	11 interchangeable blocks
Display resolution	0.1 °C	Power supply	150 W
Heating time	≤ 12 min, 25 °C to 100 °C	Voltage	AC220V or AC110V / 50–60Hz
Shaking speed	200 to 1800 rpm	Fuse	250V 3A Φ5×20
Orbit	3 mm	Dimensions · weight	260 × 195 × 150 mm · 7.0 kg

Values are the ones stated in the ALEMADR-MS specification. RT = room temperature; the control range starts 5 °C above the temperature of the room the instrument stands in. Supply voltage is fixed at order.

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Optional Blocks

 PRO4484 96 × 0.2 ml 8 × 12 — standard	 PRO4483 54 × 0.5 ml 6 × 9 — from photo	 PRO4307 35 × 1.5 ml 5 × 7 — from photo	 PRO4485 35 × 2.0 ml 5 × 7 — from photo	 PRO4486 20 × 1.5 + 15 × 0.5 ml 5 × 7 — from photo	 PRO4487 96-well ELISA plate flat seat — from photo
 PRO4488 24 × 5 ml 4 × 6 — from photo	 PRO4489 15 × 10 ml 3 × 5 — from photo	 PRO4490 12 × 15 ml 3 × 4 — from photo	 PRO4491 6 × 50 ml 2 × 3 — from photo	 PRO4308 6 × 50 ml 2 × 3 — from photo	

Schematic top view — layouts marked “from photo” are read from the photograph of the block set; the 8 × 12 PCR plate layout is the standard plate format. PRO4487 is a flat seat: the ELISA plate rests on the block, which has no wells. PRO4486 is one 5 × 7 body carrying both tube sizes; which positions take 1.5 ml and which take 0.5 ml is not yet confirmed. Hole diameter, pitch and outer block dimensions are to be confirmed against the supplier drawing.

Block SKU	Capacity	Maximum speed
PRO4484	96 × 0.2 ml PCR plate	1800 rpm
PRO4483	54 × 0.5 ml centrifuge tubes	1800 rpm
PRO4307	35 × 1.5 ml centrifuge tubes	1800 rpm
PRO4485	35 × 2.0 ml centrifuge tubes	1800 rpm
PRO4486	20 × 1.5 ml + 15 × 0.5 ml centrifuge tubes	1800 rpm
PRO4487	96 × 0.2 ml ELISA plate	1800 rpm
PRO4488	24 × 5 ml centrifuge tubes	1000 rpm
PRO4489	15 × 10 ml centrifuge tubes	1000 rpm
PRO4490	12 × 15 ml centrifuge tubes	800 rpm
PRO4491	6 × 50 ml centrifuge tubes, round bottom	800 rpm
PRO4308	6 × 50 ml centrifuge tubes, conical bottom	800 rpm

Blocks are ordered separately from the main unit and are manufactured to order: hole layout, hole size and mixed tube formats can be produced to the laboratory's own requirement. The maximum speed column gives the rating stated in this specification for each block; where no separate rating is given, the instrument maximum of 1800 rpm applies. Block availability, tube compatibility and plate compatibility are confirmed in the COLO.Science quotation.

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ALEMADR-MS main unit • dry block thermo shaker incubator • SKU PRO4306

Ordering information

Item	Value
Model	ALEMADR-MS
Main unit SKU	PRO4306
Product type	Dry block thermo shaker incubator
Speed range	200 to 1800 rpm
Temperature setting range	0 °C to 100 °C
Block options	11 block SKUs, ordered separately
Voltage options	AC220V or AC110V / 50–60Hz

Configuration checklist

Tube or plate format: confirm PCR plate, ELISA plate, or centrifuge tube size from 0.5 ml to 50 ml.

Block SKU: select the block from the list on page 4; positions per run decide the block.

Speed: large-tube blocks are rated below the instrument maximum — check the block rating against the protocol.

Temperature profile: define target temperature and how long it is held.

Power configuration: confirm AC220V or AC110V before the order is placed.

SUPPLIER AND SUPPORT

COLO Lab Experts

Polje ob Sotli 4, SI-3255, Slovenia

Selection guidance: Send the tube or plate format, the number of positions per run, the target temperature, the shaking speed and how long the protocol holds. COLO.Science will confirm which block fits and which ALEMADR-MS configuration suits the workflow.

QUICK CONTACT

 colo.si

 sales@colo.si

 +386 70 713 437

COLO.SCIENCE • THERMO SHAKER CONFIGURATION SUPPORT

Not sure which of the eleven blocks fits your tubes?

Send the tube or plate format, the number of positions per run, the target temperature and the shaking speed the protocol needs. COLO.Science will confirm the block SKU, the speed rating that applies to it and the delivery time. If the format you need is not on the list, it is made to order.

Web: colo.si

Ask us:

Price and current discount, delivery time, block availability, application support for your protocol, installation and operator training, spare blocks and accessories — write to sales@colo.si or call us. If your protocol needs a block or a configuration that is not listed, ask: it is made to order.

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