

ALEMADR-MSC

Thermo Shaker Incubator with Cooling • Modular Blocks • RT-20 °C to 100 °C • 200-1500 rpm

ALEMADR-MSC Thermo Shaker Incubator is a cooled dry block thermo shaker for microtubes, PCR plates, ELISA plates and centrifuge tubes from 0.2 ml to 50 ml. Active cooling takes the block to RT-20 °C and heating to 100 °C, held under PID control to ± 0.3 °C, while shaking runs from 200 to 1500 rpm on a 3 mm orbit. Eleven interchangeable blocks cover the formats a protocol moves between, and AUTO-4 °C keeps finished samples cold until they are collected.

COOLING TO RT-20 °C

200-1500 RPM

3 MM ORBIT

0 °C TO 100 °C SETTING

RT-20 °C TO 100 °C CONTROL

± 0.3 °C ACCURACY

AUTO-4 °C

11 BLOCK OPTIONS

SKU PRO3907

Document type: **Technical Specification Sheet**

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

Main unit SKU: **PRO3907**

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

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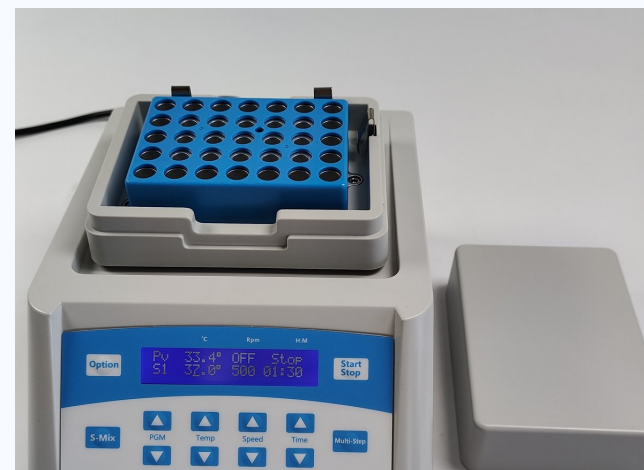
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ALEMADR-MSC • thermo shaker incubator • main unit • SKU PRO3907



ALEMADR-MSC • modular block area • eleven block formats

MODEL

ALEMADR-MSC

ADDRESS / HQ

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CONTACT

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ALEMADR-MSC • technical specification

Cooled dry block thermo shaker incubator, RT–20 °C to 100 °C, eleven interchangeable blocks

LCD DISPLAY

PID CONTROL

COOLING TO RT–20 °C

AUTO–4 °C

11 BLOCKS

3 MM ORBIT

— Heating, cooling and shaking in one bench instrument



Product Overview

Application profile

Cold incubation: 14 °C for ligation reactions, 17 °C for storing oocytes, 4 °C for finished samples.

Sample storage: enzymes and DNA libraries held at working temperature at the bench.

Enzymatic reactions: restriction digests, ligations and reverse transcription with movement.

PCR and plate work: sample preparation before cycling; ELISA and PCR plates on dedicated seats.

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

Key features

Heating and cooling: RT–20 °C to 100 °C under PID control, $\leq \pm 0.3$ °C accuracy and uniformity.

AUTO–4 °C: automatic drop to 4 °C at the end of a run, for unattended finishes.

Programmable runs: up to 5 temperature set points and up to 99 cycles per programme.

Automatic operation: auto heating, auto running and auto resume after a power interruption.

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

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

Safety: fault detection with buzzer alarm, temperature calibration, over-temperature protection.

Why cooling changes the workflow

Below room temperature: the block holds down to RT–20 °C, so cold steps do not need an ice bucket.

Cooling times: ≤ 10 min from 100 °C to 25 °C, ≤ 15 min from room temperature to RT–20 °C.

AUTO–4 °C: the block drops to 4 °C when the programme ends and holds finished samples there.

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

Speed is matched to the block: large-tube blocks are rated below the instrument maximum, page 4.

Core technical summary

Parameter	Specification
Model	ALEMADR-MSC
Product type	Cooled dry block thermo shaker incubator
Shaking speed	200 to 1500 rpm
Orbit	3 mm
Temperature setting range	0 °C to 100 °C
Temperature control range	RT–20 °C to 100 °C
Temperature accuracy	$\leq \pm 0.3$ °C
Dimensions	260 × 195 × 150 mm
Weight	7.5 kg

SPEED

200–1500 rpm

CONTROL

RT–20 °C to 100 °C

COOLING

 ≤ 15 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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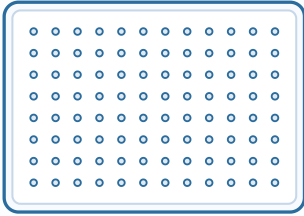
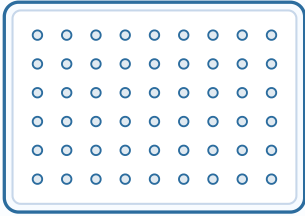
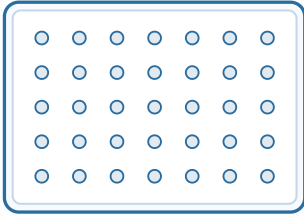
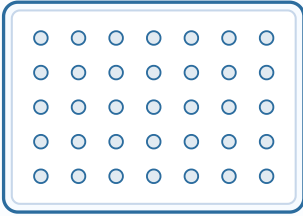
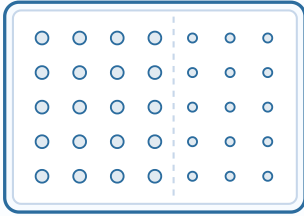
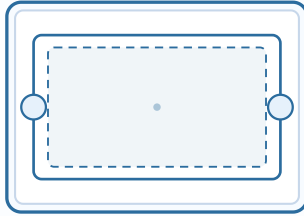
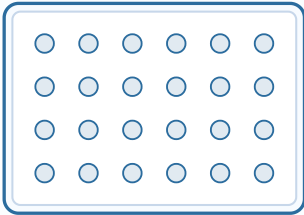
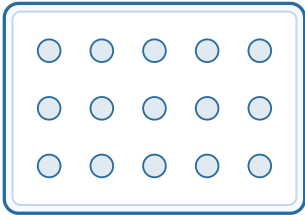
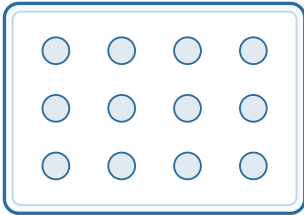
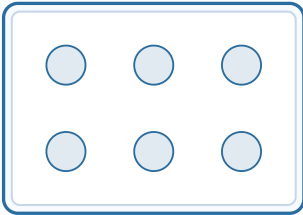
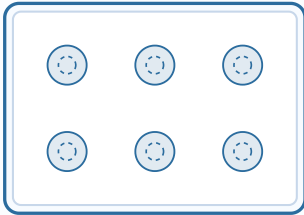
Technical Specifications

Parameter	ALEMADR-MSC	Parameter	ALEMADR-MSC
Temperature setting range	0 °C to 100 °C	Sample storage	AUTO-4 °C
Temperature control range	RT-20 °C to 100 °C	Multi-point running	up to 5 set points
Temperature accuracy	≤ ±0.3 °C	Multi-cycle	up to 99 cycles
Temperature uniformity	≤ ±0.3 °C	Automatic operation	auto heating · auto running · auto resume
Display resolution	0.1 °C	Motor	Brushless DC
Heating time	≤ 15 min, 25 °C to 100 °C	Display	LCD, speed · time · temperature
Cooling time 1	≤ 10 min, 100 °C to 25 °C	Block options	11 interchangeable blocks
Cooling time 2	≤ 15 min, RT to RT-20 °C	Power	150 W
Shaking speed	200 to 1500 rpm	Voltage	AC100-240V / 50-60Hz
Orbit	3 mm	Fuse	250V 3A Φ5×20
Time range	1 min to 99 min 59 s / ∞	Dimensions · weight	260 × 195 × 150 mm · 7.5 kg

Values are the ones stated in the ALEMADR-MSC specification. RT = room temperature; the cooling range reaches 20 °C below the temperature of the room the instrument stands in. The instrument accepts AC100-240 V, so no voltage variant has to be chosen 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	1500 rpm
PRO4483	54 × 0.5 ml centrifuge tubes	1500 rpm
PRO4307	35 × 1.5 ml centrifuge tubes	1500 rpm
PRO4485	35 × 2.0 ml centrifuge tubes	1500 rpm
PRO4486	20 × 1.5 ml + 15 × 0.5 ml centrifuge tubes	1500 rpm
PRO4487	96 × 0.2 ml ELISA plate	1500 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 1500 rpm applies. Block availability, tube compatibility and plate compatibility are confirmed in the COLO.Science quotation.

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ALEMADR-MSC main unit • dry block thermo shaker incubator • SKU PRO3907

Ordering information

Item	Value
Model	ALEMADR-MSC
Main unit SKU	PRO3907
Product type	Cooled dry block thermo shaker incubator
Speed range	200 to 1500 rpm
Temperature control range	RT–20 °C to 100 °C
Block options	11 block SKUs, ordered separately
Voltage	AC100–240V / 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.

Lowest working temperature: cooling reaches 20 °C below the room — a warm room raises the floor.

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

Power: the instrument accepts AC100–240 V, 50–60 Hz; no voltage variant is chosen at order.

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-MSC configuration suits the workflow.

QUICK CONTACT

 colo.si

 sales@colo.si

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COLO.SCIENCE • THERMO SHAKER CONFIGURATION SUPPORT

Not sure whether the cooling range covers your protocol?

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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