

ALEMADR-SO

Dry Bath Incubator • One Interchangeable Block • RT+5 °C to 100 °C • Cooling version
ALEMADR-SOC

ALEMADR-SO Dry Bath Incubator is a compact, microprocessor-controlled dry bath that holds one interchangeable aluminium block. The temperature is set from 0 °C and controlled from RT+5 °C to 100 °C, with $\leq \pm 0.3$ °C accuracy and uniformity. Programs run up to five temperature points and repeat up to 99 times. Eleven block formats take 0.2 ml to 50 ml tubes and 96-well plates. The **ALEMADR-SOC** adds Peltier cooling down to RT-30 °C and 4 °C sample storage; both are compared on page 3.

DRY BATH 1 BLOCK 0 °C TO 100 °C SETTING RT+5 °C TO 100 °C CONTROL $\leq \pm 0.3$ °C
5-POINT PROGRAMS • 99 CYCLES 11 BLOCK FORMATS 150 W • 2.5 KG SKU PRO4538

Document type: **Technical Specification Sheet**

Product: **ALEMADR-SO Dry Bath Incubator • ALEMADR-SOC cooling version**

Main unit SKU: **PRO4538**

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

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Heating only, or heating and cooling?

HEATING ONLY

ALEMADR-SO

RT+5 °C to 100 °C • SKU PRO4538

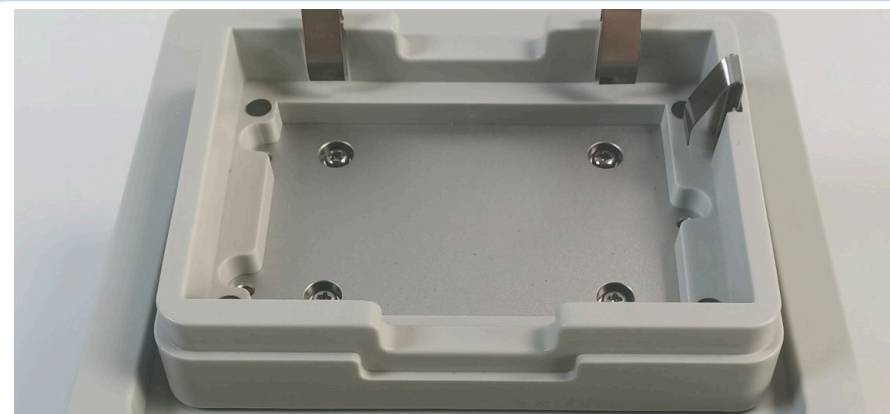
HEATING & COOLING

ALEMADR-SOC

RT-30 °C to 100 °C • 4 °C storage • SKU PRO4539



ALEMADR-SO • dry bath incubator with one block fitted • SKU PRO4538



Block seat • the block is easy to replace and is ordered separately

MODEL

ALEMADR-SO

ADDRESS / HQ

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ALEMADR-SO • technical specification

Compact dry bath incubator for one interchangeable block, up to 100 °C; cooling version ALEMADR-SOC

LCD DISPLAY ONE BLOCK 5 POINTS • 99 CYCLES 0.2-50 ML • PLATES AUTO RESUME 150 W — Compact single-block dry bath

Product Overview

Application profile

Sample incubation and preservation: controlled dry-block temperature without a water bath.

DNA work: DNA amplification and enzyme reactions in microtubes and 96-well plates.

Electrophoresis: denaturation of samples before loading.

Serum samples: serum solidification and thermostatic incubation.

Cooling steps (ALEMADR-SOC): ligation at 14 °C, sample storage at 4 °C, chilling and heating in one unit.

Key features

LCD display: temperature set with the arrow keys on the sloped control panel.

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

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

Automatic functions: auto heating, auto running, auto resume after a power failure.

Temperature calibration: user calibration to an in-house standard.

Interchangeable block: easy replacement, cleaning and disinfection of the block.

Safety: fault detection with buzzer alarm, built-in over-temperature protection, CE.

Why this dry bath incubator

Compact: 260 × 195 × 150 mm, little bench space.

Aluminium block: high-purity aluminium as the heat-conducting medium instead of water.

Programs: up to 5 temperature points per program, repeated up to 99 times.

Eleven block formats: from 96 × 0.2 ml to 6 × 50 ml tubes, PCR and ELISA plates.

Same blocks with cooling: the ALEMADR-SOC takes the same eleven blocks.

Core technical summary

Parameter	Specification
Model	ALEMADR-SO
Product type	Dry bath incubator, one block
Temperature setting range	0 °C to 100 °C
Temperature control range	RT+5 °C to 100 °C
Temperature accuracy	$\leq \pm 0.3$ °C
Temperature uniformity	$\leq \pm 0.3$ °C
Timer	1 min to 99 h 59 min, or continuous
Dimensions	260 × 195 × 150 mm
Weight	2.5 kg

TEMP. CONTROL
RT+5 °C to 100 °C

ACCURACY
 $\leq \pm 0.3$ °C

HEATING 25 → 100 °C
 ≤ 12 min

PROGRAMS
5 points • 99 cycles

RT = room temperature. Block format, tube type and plate use are confirmed in the COLO.Science quotation.

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Technical Specifications

Parameter	ALEMADR-SO	Parameter	ALEMADR-SO
Temperature setting range	0 °C to 100 °C	Control	Microprocessor, automatic temperature control
Temperature control range	RT+5 °C to 100 °C	Display	LCD
Temperature accuracy	≤ ±0.3 °C	Block positions	1 interchangeable block
Temperature uniformity	≤ ±0.3 °C	Auto heating · auto running	Yes · Yes
Display resolution	0.1 °C	Auto resume after power failure	Yes
Heating time	≤ 12 min, 25 °C to 100 °C	Temperature calibration	User calibration
Time range	1 min to 99 h 59 min / ∞	Safety	Fault detection, buzzer alarm, over-temperature protection, CE
Multi-point program	Up to 5 temperature points	Power · fuse	150 W · 250 V 3 A, Ø 5 × 20
Program cycles	Up to 99	Voltage · dimensions · weight	AC 220 V or AC 110 V, 50/60 Hz · 260 × 195 × 150 mm · 2.5 kg

RT = room temperature; the control range starts 5 °C above the temperature of the room the instrument stands in. The mains voltage version is confirmed in the quotation.

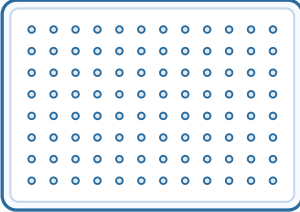
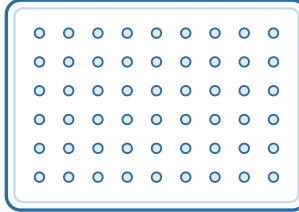
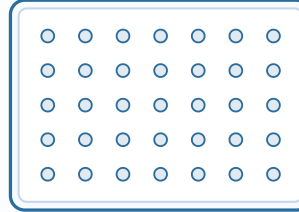
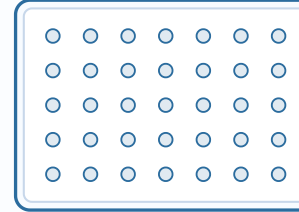
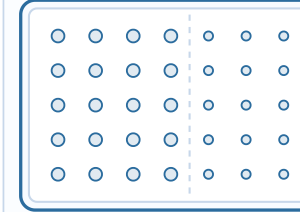
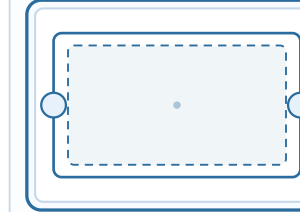
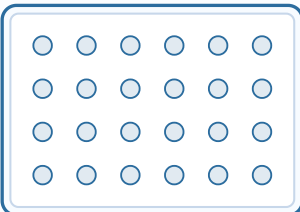
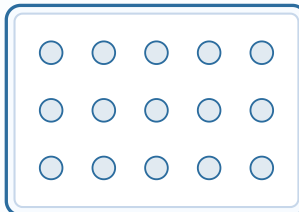
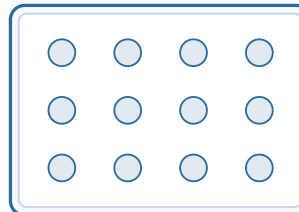
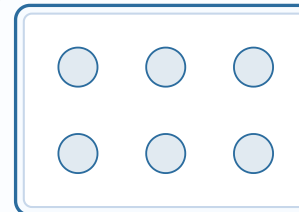
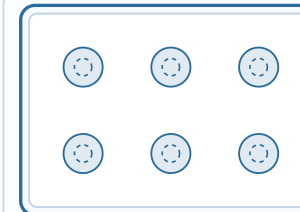
⚖️ ALEMADR-SO and ALEMADR-SOC compared

Parameter	ALEMADR-SO · PRO4538	ALEMADR-SOC · PRO4539 · cooling
Temperature setting range	0 °C to 100 °C	-10 °C to 100 °C
Temperature control range	RT+5 °C to 100 °C	RT-30 °C to 100 °C
Heating and cooling	Heating only	Heating and cooling, Peltier element
Heating time	≤ 12 min, 25 °C to 100 °C	≤ 12 min, 25 °C to 100 °C
Cooling time	—	≤ 10 min, 100 °C to 25 °C · ≤ 25 min, RT to RT-30 °C
Automatic 4 °C storage	—	Yes
Supply voltage	AC 220 V or AC 110 V, 50/60 Hz	AC 100-240 V, 50/60 Hz
Weight	2.5 kg	4.5 kg

Both models share the dimensions (260 × 195 × 150 mm), the 150 W power rating, the accuracy and uniformity, the programs and timer, and the eleven blocks on page 4. Choose the ALEMADR-SOC when samples must be held below room temperature.

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Optional Blocks

 PRO4484 96 × 0.2 ml PCR plate 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 plate 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 round 2 × 3 — from photo	 PRO4308 6 × 50 ml conical 2 × 3 — from photo	

Schematic top view. Layouts marked “from photo” are read from the photograph of the block set; the 8 × 12 PCR layout is the standard plate format. The ELISA block is a flat seat on which the plate rests. Hole diameter, pitch and outer block dimensions are confirmed with the quotation.

Block SKU	Capacity	Tube or plate type	Block SKU	Capacity	Tube or plate type
PRO4484	96 × 0.2 ml	0.2 ml PCR plate	PRO4488	24 × 5 ml	5 ml centrifuge tubes
PRO4483	54 × 0.5 ml	0.5 ml centrifuge tubes	PRO4489	15 × 10 ml	10 ml centrifuge tubes
PRO4307	35 × 1.5 ml	1.5 ml centrifuge tubes	PRO4490	12 × 15 ml	15 ml centrifuge tubes
PRO4485	35 × 2.0 ml	2.0 ml centrifuge tubes	PRO4491	6 × 50 ml	50 ml tubes, round bottom
PRO4486	20 × 1.5 ml + 15 × 0.5 ml	1.5 ml and 0.5 ml centrifuge tubes	PRO4308	6 × 50 ml	50 ml tubes, conical bottom
PRO4487	96 × 0.2 ml	96-well ELISA plate			

Blocks are ordered separately; the instrument takes one block at a time. ALEMADR-SO and ALEMADR-SOC use the same eleven blocks, which also fit the ALEMADR-MS and ALEMADR-MSC thermo shakers. Availability and tube or plate compatibility are confirmed in the COLO.Science quotation; other formats on request.

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ALEMADR-SO with a 35 × 1.5 ml block fitted

Ordering information

Item	Value
Model	ALEMADR-SO · ALEMADR-SOC
Main unit SKU	PRO4538 · PRO4539
Product type	Dry bath incubator, one block · with cooling
Temperature control range	RT+5 °C to 100 °C · RT-30 °C to 100 °C
Block options	11 block SKUs, ordered separately
Supply	150 W · voltage as on page 3
Dimensions · weight	260 × 195 × 150 mm · 2.5 kg · 4.5 kg

Configuration checklist

Heating only or cooling: ALEMADR-SO above room temperature, ALEMADR-SOC also below it.

Tube or plate format: confirm the tube size or the plate type.

Block: choose one or more of the eleven blocks; each is ordered separately.

Program: temperature points, times and number of cycles.

Mains voltage: confirm the voltage and the plug type 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 temperature range you need and whether samples must be cooled. COLO.Science will confirm the model, the block and the delivery time.

QUICK CONTACT

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☎ +386 70 713 437

COLO.SCIENCE · DRY BATH CONFIGURATION SUPPORT

Heating only, or heating and cooling?

Send the tube or plate format and the temperature profile. COLO.Science will confirm the model, the block SKU and the delivery time.

Web: colo.si

Ask us:

Price and current discount, delivery time, block availability, application support for your protocol, spare blocks and accessories — write to sales@colo.si or call us.

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