

ALEMADR-DBC

Dry Block Incubator • Heating and Cooling • RT-25 °C to 100 °C • Heated Lid • Interchangeable Blocks

ALEMADR-DBC Cooling Dry Block Incubator heats and cools samples in an exchangeable block with semiconductor (Peltier) elements, without a compressor and without water. With a heating and cooling block it controls from 25 °C below room temperature to 100 °C, with an accuracy and uniformity of ± 0.3 °C at 37 °C, and holds samples at 4 °C. Each block has its own temperature sensor and heating and cooling unit and is recognised automatically by the instrument. A heated lid with adjustable temperature limits condensation in the tubes. Programs with up to 5 temperature points and up to 99 cycles run on an LCD with direct keys for block temperature, lid temperature and time.

HEATING AND COOLING

RT-25 °C TO 100 °C

± 0.3 °C AT 37 °C

STORAGE AT 4 °C

HEATED LID

5 POINTS • 99 CYCLES

AUTO-RECOGNISED BLOCKS

PELTIER, NO COMPRESSOR

LCD

Document type: **Technical Specification Sheet**

Product: **ALEMADR-DBC Cooling Dry Block Incubator**

SKU: **PRO6372**

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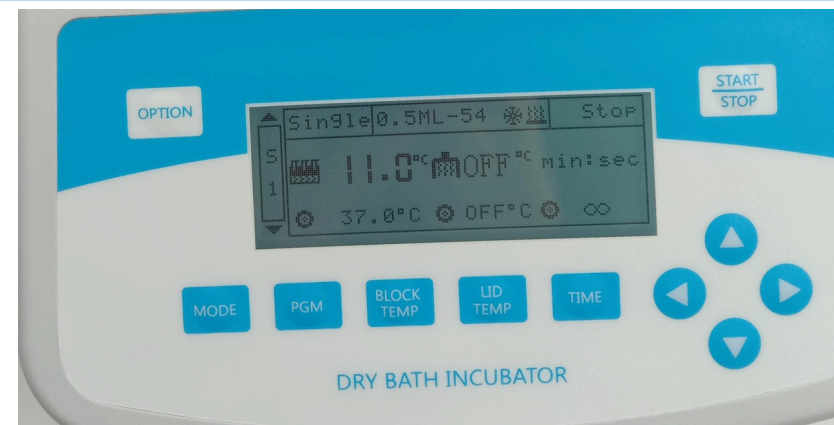
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 **HEATING AND COOLING** RT-25 °C to 100 °C



ALEMADR-DBC • heated lid open, block for 35 tubes of 1.5 ml



ALEMADR-DBC • LCD and keys for mode, program, block temperature, lid temperature and time

MODEL

**ALEMADR-DBC •
PRO6372**

ADDRESS / HQ

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ALEMADR-DBC • technical specification

Dry block incubator with heating and cooling, RT–25 °C to 100 °C, heated lid, interchangeable auto-recognised blocks, 5-point programs with up to 99 cycles

RT–25 °C TO 100 °C

≤ ±0.3 °C AT 37 °C

STORAGE AT 4 °C

5 POINTS • 99 CYCLES

HEATED LID

150 W

— Cooling and heating in one block

Product Overview

Application profile

Cold incubation: enzyme reactions, ligation and sample handling below room temperature.

Storage at 4 °C: samples and reagents kept cold on the bench between steps.

Heat steps: denaturation, inactivation and lysis up to 100 °C.

Temperature programs: up to 5 temperature points in sequence, repeated up to 99 times.

Tubes and plates: 0.2 ml, 0.5 ml, 1.5 ml and 2.0 ml tubes and 96-well plates.

Key features

LCD: mode, block type, block and lid temperature and time on one screen.

Block system: each block has a built-in sensor and heating and cooling unit.

Auto-recognition: the instrument identifies the block that is fitted.

Heated lid: adjustable, can be switched off.

Multi-point programs: up to 5 points and up to 99 cycles.

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

Power failure: automatic restart when the supply returns.

Safety: temperature calibration and over-temperature protection built in.

Why a cooling dry block

No ice, no water: samples are cooled in a dry block at a set temperature.

One instrument: cooling, heating and holding without moving the tubes.

Fast changes: 100 °C to 25 °C in ≤ 12 min; room temperature to RT–25 °C in ≤ 25 min.

Heated lid: limits condensation on the tube caps; its temperature is adjustable.

Blocks with their own sensor: the temperature is measured in the block itself.

Core technical summary

Parameter	Specification
Model	ALEMADR-DBC
Product type	Dry block incubator, heating and cooling
Temperature control range	RT–25 °C to 100 °C
Accuracy • uniformity at 37 °C	≤ ±0.3 °C • ≤ ±0.3 °C
Heating 25 °C to 100 °C	≤ 12 min
Cooling 100 °C to 25 °C	≤ 12 min
Cooling RT to RT–25 °C	≤ 25 min
Programs	up to 5 points, up to 99 cycles
Blocks	5 heating and cooling blocks, ordered separately

TEMP. CONTROL

RT–25 °C to 100 °C

ACCURACY AT 37 °C

≤ ±0.3 °C

COOLING

100 → 25 °C ≤ 12 min

PROGRAMS

5 points • 99 cycles

RT = room temperature. The instrument is supplied without a block; cooling requires a heating and cooling block. Tubes, plates and samples are not part of the instrument. Suitability for a specific protocol is confirmed in the COLO.Science quotation.

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Technical Specifications

Parameter	ALEMADR-DBC	Parameter	ALEMADR-DBC
Temperature setting range	−10 °C to 100 °C	Heated lid	Adjustable, can be switched off
Temperature control range	RT−25 °C to 100 °C	Heated lid accuracy · heating time	≤ ±0.5 °C · ≤ 10 min, 25 °C to 100 °C
Temperature accuracy	≤ ±0.3 °C at 37 °C	Time range	1 s to 99 h 59 min, or continuous
Temperature uniformity	≤ ±0.3 °C at 37 °C	Multi-point run · cycles	Up to 5 points · up to 99 cycles
Display resolution	0.1 °C	Auto restart after power failure	Yes
Heating time	≤ 12 min, 25 °C to 100 °C	Power · fuse	150 W · 250 V 3 A, Ø 5 × 20
Cooling time	≤ 12 min, 100 °C to 25 °C	Voltage	AC 220 V, 50/60 Hz (AC 110 V on request)
Cooling time below RT	≤ 25 min, RT to RT−25 °C	Dimensions	300 × 200 × 210 mm
Storage at 4 °C	Yes	Weight	4.7 kg, without block

RT = room temperature; the lowest block temperature is 25 °C below the temperature of the room the instrument stands in. Accuracy, uniformity, heating and cooling times are supplier data.

Interchangeable blocks

Capacity	Heating and cooling block · RT−25 °C to 100 °C	Heating block · RT+5 °C to 100 °C
35 × 2.0 ml tubes	PRO4540	PRO4545
35 × 1.5 ml tubes	PRO4541	PRO4546
54 × 0.5 ml tubes	PRO4542	PRO4547
96 × 0.2 ml PCR tubes	PRO4543	PRO4548
96-well plate, 0.2 ml	PRO4544	PRO4549

One block is in the instrument at a time. Heating blocks can be used for work above room temperature; they do not cool.

Heated lid, blocks and programs

Heated lid: screwed down on the tubes; its temperature is adjustable and it can be switched off.

Block change: the block lifts out and the new one is recognised automatically.

Multi-point run: up to 5 temperature and time points in sequence, repeated up to 99 times.

Power failure: the run restarts automatically when the supply returns.

Run sequence

1 · Block: fit the block for your tubes or plate; the instrument shows the block type.

2 · Program: set block temperature, lid temperature and time, or a program with up to 5 points.

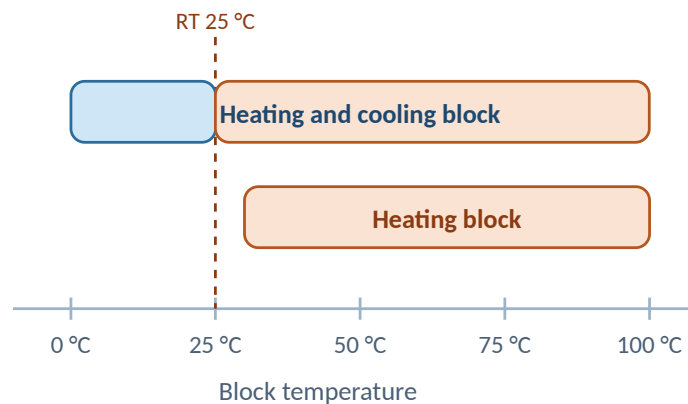
3 · Run: load the tubes, close the heated lid and start.

4 · End: the run stops at the end of the time or holds the temperature, for example 4 °C.

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Temperature Range and Blocks

Temperature control range



Schematic for a room temperature of 25 °C: the heating and cooling block reaches 0 °C, the heating block starts 5 °C above room temperature.

Interchangeable blocks



Above: heating blocks. Below: heating and cooling blocks with heat sink. Formats in both rows: 2.0 ml, 1.5 ml, 0.5 ml, 0.2 ml tubes and 96-well plate.

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ALEMADR-DBC - heated lid closed, lid pressure knob on top

Ordering information

Item	Value
ALEMADR-DBC cooling dry block incubator, without block	PRO6372
Heating and cooling blocks	PRO4540 to PRO4544
Heating blocks	PRO4545 to PRO4549
Supply	AC 220 V, 50/60 Hz
Delivery	Instrument with heated lid, mains cable, operating manual

Configuration checklist

Tubes or plate: the format decides the block.

Lowest temperature: for work below room temperature choose a heating and cooling block.

Temperature: working range within RT-25 °C to 100 °C.

Heating only? ALEMADR-DB is the same instrument for RT+5 °C to 100 °C.

Bench space: 300 × 200 × 210 mm, 4.7 kg; keep the ventilation slots free.

SUPPLIER AND SUPPORT

COLO Lab Experts

Polje ob Sotli 4, SI-3255, Slovenia

Selection guidance: Send the tube or plate format and the lowest and highest temperature of your protocol. COLO.Science will confirm the block and the delivery time.

QUICK CONTACT

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COLO.SCIENCE · INCUBATION CONFIGURATION SUPPORT

Which block fits your protocol?

Send the tube or plate format and the lowest and highest temperature. COLO.Science will confirm the block and the delivery time.

Web: colo.si

Ask us:

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

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