

ALEMADR-BB

Bead Bath • Heated Lid • RT+5 °C to 100 °C • Tank 264 × 264 × 160 mm • 10 Programs

ALEMADR-BB Bead Bath is a benchtop dry bath filled with glass beads instead of water. The beads take vessels of any shape — tubes, bottles, flasks — without a block and without the contamination risk of a water bath. PID control holds the stainless steel tank from RT+5 °C to 100 °C with an accuracy of $\leq \pm 0.5$ °C at 37 °C, a heated lid with adjustable temperature limits condensation, and the 264 × 264 × 160 mm tank takes 25 centrifuge tubes of 50 ml or nine 250 ml culture bottles. Ten programs, a timer up to 99 h 59 min and delayed start are standard.

GLASS BEADS, NO WATER

ANY VESSEL SHAPE

RT+5 °C TO 100 °C

$\leq \pm 0.5$ °C AT 37 °C

HEATED LID

LCD

10 PROGRAMS

STAINLESS STEEL TANK

DELAYED START

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Product: **ALEMADR-BB Bead Bath with Heated Lid**

SKU: **PRO7181**

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 **HEATING ONLY** RT+5 °C to 100 °C



ALEMADR-BB • heated lid open, tank filled with glass beads, tubes placed directly in the beads



ALEMADR-BB • LCD, navigation, start and stop keys

MODEL

ALEMADR-BB • PRO7181

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ALEMADR-BB • technical specification

Bead bath with heated lid, RT+5 °C to 100 °C, stainless steel tank 264 × 264 × 160 mm, LCD, 10 programs, timer and delayed start

TANK 264 × 264 × 160 MM

25 × 50 ML TUBES

10 PROGRAMS

≤ ±0.5 °C AT 37 °C

HEATED LID

665 W

— Dry heat for vessels of any shape

Product Overview

Application profile

Sample incubation: tubes, bottles and flasks held at a set temperature.

Cell work: thawing and recovery of cells, warming of media and reagents.

Reactions: enzyme reactions and sample preservation at constant temperature.

Mixed vessels: different tube and bottle sizes in the same run, without blocks or racks.

Without beads: the empty tank works as a constant temperature bath.

Key features

LCD: set and actual temperature and time on one screen.

PID control: the heating rate is adjusted automatically to shorten the waiting time.

Programs: 10 programs stored.

Heated lid: adjustable, can be switched off.

Stainless steel tank: durable and easy to clean.

End of run: audible alarm; the bath can hold a constant temperature.

Automatic functions: auto preheating, delayed start and auto resume after a power failure.

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

Why a bead bath

No water: nothing to refill, nothing to grow in the bath, no wet labels or caps.

No block: the beads take any vessel shape and volume.

Vessels stay put: tubes stand in the beads without racks or floats.

Low upkeep: the beads are reused; the stainless steel tank is easy to clean.

Heated lid: limits condensation in the vessels; its temperature is adjustable.

Core technical summary

Parameter	Specification
Model	ALEMADR-BB
Product type	Bead bath with heated lid
Temperature control range	RT+5 °C to 100 °C
Accuracy at 37 °C	≤ ±0.5 °C
Uniformity at 37 °C	≤ ±1 °C
Timer	1 min to 99 h 59 min, or continuous
Programs	10
Tank	264 × 264 × 160 mm, stainless steel
Glass beads	about 8 kg, ordered separately

TEMP. CONTROL
RT+5 °C to 100 °C

ACCURACY AT 37 °C
≤ ±0.5 °C

TANK
264 × 264 × 160 mm

CAPACITY
25 × 50 ml tubes

RT = room temperature. Glass beads are ordered separately (PRO7182, 1 kg; about 8 kg fill the tank). Tubes, bottles 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-BB	Parameter	ALEMADR-BB
Temperature setting range	0 °C to 100 °C	Multi-point temperature sensing	Yes
Temperature control range	RT+5 °C to 100 °C	Auto preheating	Yes
Temperature accuracy	≤ ±0.5 °C at 37 °C	Constant temperature at the end of run	Yes
Temperature uniformity	≤ ±1 °C at 37 °C	Auto resume	Yes
Display resolution	0.1 °C	Power	665 W
Heated lid	Adjustable, can be switched off	Voltage • fuse	AC 220 V, 50/60 Hz (AC 110 V on request) • 250 V 5 A, Ø 5 × 20
Time range	1 min to 99 h 59 min, or continuous	Tank interior dimensions	264 × 264 × 160 mm
Delayed start	0 to 99 h 59 min	Overall dimensions	481 × 346 × 228 mm
Programs	10	Weight	10.1 kg, without beads

RT = room temperature; the control range starts 5 °C above the temperature of the room the instrument stands in. Accuracy and uniformity are supplier data at 37 °C.

Capacity and glass beads

Item	Description	Quantity	Supply
50 ml centrifuge tubes	Standing in the beads	25 tubes	Tubes not included
250 ml square culture bottles	Standing in the beads	9 bottles	Bottles not included
500 ml square culture bottles	Placed slanted	3 bottles	Bottles not included
PRO7182	Glass beads, 1 kg pack	About 8 packs fill the tank	Ordered separately

Capacities are examples for one vessel type; vessels of different sizes can be combined in the same run.

Heated lid, beads and alarm

Heated lid: closes the tank during the run; its temperature is adjustable and it can be switched off.

Glass beads: about 8 kg fill the tank; push the vessels into the beads to the level of the sample.

End of run: an alarm sounds; the bath can go on holding the temperature.

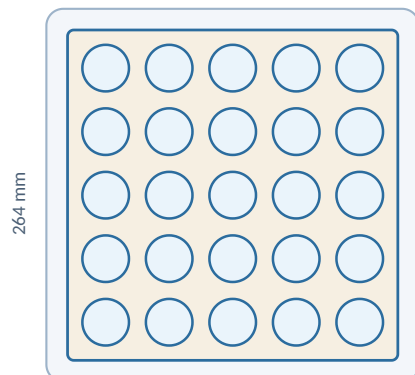
Power failure: the run resumes automatically when the supply returns.

Run sequence

- 1 • **Program:** set temperature and time, or recall one of the 10 programs; set a delayed start if needed.
- 2 • **Preheat:** the bath preheats the beads to the set temperature.
- 3 • **Load:** push the vessels into the beads, close the heated lid and start the timer.
- 4 • **End:** the alarm sounds; take the vessels out or leave them at constant temperature.

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Tank, top view



264 × 264 mm · depth 160 mm

Schematic top view: 25 centrifuge tubes of 50 ml in the 264 × 264 mm tank. Other vessels are placed freely in the beads.

Tank with glass beads



Stainless steel tank filled with glass beads; 50 ml, 15 ml and micro tubes stand directly in the beads.

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ALEMADR-BB • control panel with LCD

Ordering information

Item	Value
ALEMADR-BB bead bath with heated lid	PRO7181
Glass beads, 1 kg — about 8 kg needed	PRO7182
Supply	AC 220 V, 50/60 Hz
Delivery	Bead bath with heated lid, mains cable, operating manual
Not included	Glass beads, tubes and bottles

Configuration checklist

Vessels: type, volume and number per run.

Temperature: working temperature within RT+5 °C to 100 °C.

Beads: order about 8 kg (8 × PRO7182) with the instrument.

Tubes in fixed positions? ALEMADR-SB dry block incubators hold tubes in exchangeable blocks.

Bench space: 481 × 346 × 228 mm, 10.1 kg without beads.

SUPPLIER AND SUPPORT

COLO Lab Experts

Polje ob Sotli 4, SI-3255, Slovenia

Selection guidance: Send the vessel types, the number per run and the working temperature. COLO.Science will confirm the bead quantity and the delivery time.

QUICK CONTACT

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COLO.SCIENCE • INCUBATION CONFIGURATION SUPPORT

Will your vessels fit the bead bath?

Send the vessel types, the number per run and the working temperature. COLO.Science will confirm the bead quantity 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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