LORDERAN

TECHNICAL DATASHEET
DS-H-BK-EN · REV. B · NOV 2026

LABORATORY INCUBATOR

88–270 L
Constant Temp. Incubator

Controlled warmth for everyday incubation — **RT + 5 °C to 85 °C**, **±0.5 °C** at 37 °C, a stainless chamber and touch-screen control.

MODELS

H88BK | H160BK | H200BK | H270BK





D TYPE · INNER GLASS DOOR

RT+5–85 °C TEMPERATURE RANGE	**±0.5 °C** STABILITY AT 37 °C	**±1 °C** UNIFORMITY AT 37 °C	**88–270 L** FOUR CAPACITIES
1–9999 min TIMER	**2** ADJUSTABLE SHELVES	**D · G** DOOR DESIGNS	**345–645 W** POWER

01 Steady at 37 °C
Stability and fluctuation ±0.5 °C.

02 Choose your door
Inner glass door (D) or viewing window (G).

03 Two alarm systems
Over-temperature and independent limit alarm.

APPLICATIONS

Microbiology · QC testing · Biological indicators · Teaching

Warranty
Major defects: full refund or replacement.

Free DDP shipping
Duties paid, no surprise import charges.

30-day returns
Most new, unopened items.

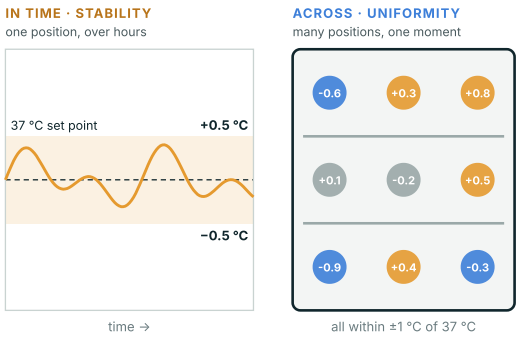
PRODUCT OVERVIEW

Steady conditions. Clearer observations.

The H-BK series combines a **stainless steel chamber**, touch-screen operation and two adjustable shelves in four capacities from 88 to 270 L. Set temperatures from room temperature plus 5 °C to 85 °C, then choose the door design and electrical configuration that fit your work.

Microcomputer control brings the chamber toward the selected temperature, and a 1–9999 minute timer supports scheduled incubation. Stability and uniformity describe different things: one position over time, and many positions at one moment.

Two specifications. Stability: how steady one position stays over time. Uniformity: how close positions are across the chamber. Both stated at 37 °C.



Concept illustration of the two specifications · not measured data

HOW IT WORKS

01 Warm up
Microcomputer control heats toward the set point.

02 Stabilize
±0.5 °C stability and fluctuation at 37 °C.

03 Incubate
Timer 1–9999 min, or run continuously.

04 Protect
Over-temperature and independent limit alarms; leakage and over-voltage protection.

RANGE
RT+5–85 °C
30 °C min. at 25 °C room

STABILITY
±0.5 °C
at 37 °C

UNIFORMITY
±1 °C
at 37 °C

TIMER
1–9999 min

LOWEST SET POINT

$T_{min} = T_{room} + 5\ °C$

The incubator heats but does not cool. At 25 °C room temperature the lowest set point is 30 °C. Ambient 5–30 °C; recommended 25 ± 2 °C.

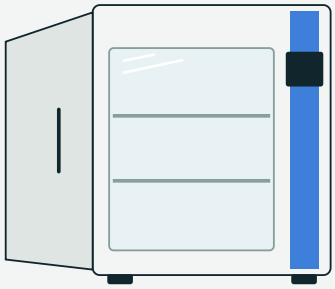
Let it settle
Allow the chamber to stabilize before loading, and after long door openings.

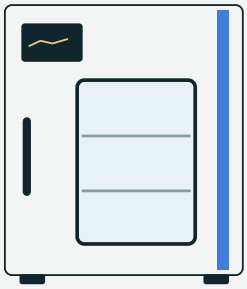
Leave air gaps
Space vessels on the shelves; tight stacks create warmer and cooler zones.

Mind the room
A warm room raises the lowest reachable set point.

FEATURES

Practical controls. Essential protection.





01 Control

- **LED touch screen** on the front
- **Microcomputer** controller
- **1–9999 min** timer

02 Chamber

- **Stainless steel** interior
- **Two adjustable shelves** as standard
- D type: inner glass door · G type: viewing window

03 Performance

- RT + 5 °C to **85 °C**
- Stability and fluctuation **±0.5 °C** at 37 °C
- Uniformity **±1 °C** at 37 °C

04 Safety

- **Over-temperature** alarm
- **Independent limit-temperature** alarm
- Leakage-current and over-voltage protection

FOUR CAPACITIES · G-TYPE PROFILES TO SCALE



88 L · H88BK
500 × 364 × 500 mm · 345 W



160 L · H160BK
558 × 518 × 600 mm · 495 W



200 L · H200BK
598 × 638 × 548 mm · 645 W



270 L · H270BK
665 × 720 × 600 mm · 645 W

TECHNICAL SPECIFICATIONS

Technical specifications

Parameter	H88BK	H160BK	H200BK	H270BK
MODEL AND DIMENSIONS				
Capacity	88 L	160 L	200 L	270 L
Door configurations listed	D / G type	D / G type	G type	G type
Internal size (mm)	500 × 364 × 500	558 × 518 × 600	598 × 638 × 548	665 × 720 × 600
External size (mm)	D type 650 × 573 × 793 G type 627 × 621 × 692	D type 718 × 732 × 890 G type 685 × 779 × 790	G type 725 × 809 × 830	G type 791 × 859 × 912
Packing size (mm)	D type 720 × 630 × 930 G type 697 × 671 × 829	D type 788 × 792 × 1027 G type 755 × 829 × 927	G type 830 × 895 × 990	G type 900 × 945 × 1075
Gross weight (kg)	65	80	86	100
PERFORMANCE				
Temperature range	RT + 5 °C to 85 °C			
Temperature stability	±0.5 °C at 37 °C			
Temperature fluctuation	±0.5 °C at 37 °C			
Temperature uniformity	±1 °C at 37 °C			
Ambient temperature	5–30 °C; recommended 25 °C ±2 °C			
Temperature control method	PT100	—	—	—
CONTROL AND CHAMBER CONSTRUCTION				
Display	LED touch screen			
Controller	Microcomputer controller			
Chamber material	Stainless steel			
Shelves, standard	2, adjustable			
Time range	1–9999 min			
ELECTRICAL				
Power consumption	345 W	495 W	645 W	645 W
Standard power supply	AC 220 V ±10%, 50/60 Hz			
Optional power supply	AC 110 V ±10%, 60 Hz			
SAFETY SYSTEMS				
Over-temperature alarm	Included			
Independent limit-temperature alarm	Included			
Leakage-current and over-voltage protection	Included			

Specifications from the LORDERAN product documentation. Subject to change without notice for product improvement.

AT A GLANCE

MODEL	H88BK	H160BK	H200BK	H270BK
Capacity	88 L	160 L	200 L	270 L
Doors	D / G type	D / G type	G type	G type
Internal W×D×H	500 × 364 × 500	558 × 518 × 600	598 × 638 × 548	665 × 720 × 600
Power	345 W	495 W	645 W	645 W
Gross weight	65	80	86	100

TYPICAL INCUBATION TEMPERATURES · AND WHAT RT + 5 °C MEANS FOR THEM

Work	Typical temperature	With this incubator
Total aerobic microbial count (USP <61>)	30–35 °C	Yes, at room temperature up to 25–30 °C
Clinical and human-associated microbes	37 °C	Yes
Biological indicators for steam sterilization	55–60 °C	Yes
Yeast and mould count (USP <61>)	20–25 °C	Only if the room is 15–20 °C or cooler; otherwise use a cooled incubator

Reference summary for planning; follow your method or pharmacopoeia. Set range RT + 5 °C to 85 °C; ambient 5–30 °C.

APPLICATIONS & SERVICE

Where it works, and what comes with it

Microbiology
Bacterial cultures and plate counts.

QC testing
Microbial limits and environmental monitoring plates.

Biological indicators
Read-out of steam sterilization indicators.

Teaching
Simple, robust incubation for student labs.

INSTALLATION

Supply
AC 220 V ±10 %, 50/60 Hz standard; AC 110 V ±10 %, 60 Hz optional.

Ambient
5–30 °C; recommended 25 °C ±2 °C.

Door
D and G for 88 L and 160 L; G for 200 L and 270 L. External sizes differ by door type.

WARRANTY & SERVICE

Warranty
Major defects under warranty: full refund or replacement.

30-day returns
Return most new, unopened items within 30 days.

Free DDP shipping
Delivered duty paid, no surprise import charges.

Formal quotation
PDF quote on request, with a confirmed ship date.

Request a quotation

Send your application, model and quantity through www.lorderan.com and we will reply with a formal PDF quotation.

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LORDERAN
www.lorderan.com
Laboratory and environmental test equipment