LORDERAN

TECHNICAL DATASHEET
DS-FH700-EN · REV. B · NOV 2026

LABORATORY FUME HOOD

27-inch **Tabletop Ducted Fume Hood**

Bench-scale fume capture — a built-in blower moves **250 m³/h** through an **active carbon** filter, with face velocity **0.3–0.8 m/s** in four steps.

MODEL FH700



0.3–0.8 m/s FACE VELOCITY	**250** m³/h AIRFLOW · 147 CFM	**4** BLOWER SPEED STEPS	**660** mm MAX OPENING
≤ 65 dB NOISE	**Φ250** mm 4 M PVC DUCT	**Phenolic** CHEMICAL-RESISTANT TOP	**200** W CONSUMPTION

01 **Negative pressure**
The work area stays below room pressure.

02 **Carbon filter included**
HEPA filter and 15 W UV lamp optional.

03 **Ready for the bench**
Blower, 4 m duct and strap in the box.

APPLICATIONS

Small-scale chemistry · Sample preparation · Teaching labs · Odour control

Warranty
Major defects: full refund or replacement.

Free DDP shipping
Duties paid, no surprise import charges.

30-day returns
Most new, unopened items.

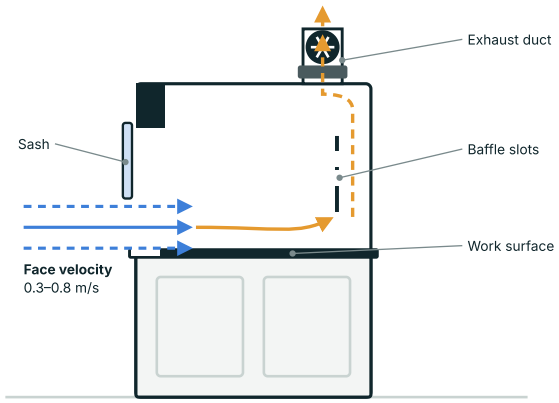
PRODUCT OVERVIEW

Fumes go up and out, never toward you

A 27-inch benchtop fume hood that pulls fumes away from the operator and sends them outside through a ducted exhaust. A built-in PP centrifugal blower moves 250 m³/h through an active carbon filter.

The blower draws room air in through the front opening and up behind the rear panel. Fumes are carried into the duct and out of the building, and the **negative pressure** in the work area protects both the operator and the room.

Side section. Schematic. Blue: room air drawn in at the front. Orange: fume-laden air rising behind the rear panel to the blower, carbon filter and duct.



HOW IT WORKS

01 Front inflow
Room air enters at 0.3–0.8 m/s, set in four steps.

02 Rear panel
Air rises behind the rear panel to the blower.

03 Carbon filter
Active carbon filtration supplied as standard.

04 Ducted exhaust
4 m PVC duct, Φ250 mm, to the outside.

05 Controls
Stepless fan speed with push-button switches.

FACE VELOCITY
0.3–0.8 m/s
four speed steps

AIRFLOW
250 m³/h
147 cfm

OPENING
660 mm
folding acrylic window

WEIGHT
100 kg
gross

EXHAUST AND CAPTURE

$$Q = v \times W \times H$$

Exhaust volume = face velocity × open face width × sash height. A lower sash raises face velocity for the same exhaust.

Work 15 cm inside

Keep sources at least 150 mm behind the sash plane, where capture is strongest.

Lower the sash

A lower sash raises face velocity and shields the face and upper body.

Keep the baffle clear

Large items near the opening or blocking the rear slots create eddies that carry vapour out.

FEATURES

Built to resist the chemicals it handles

01 Protection

- **Negative pressure** in the work area
- Face velocity **0.3–0.8 m/s**, four speed steps
- Ducted exhaust to outside
- **Active carbon** filtration
- 5 mm toughened back and side windows

02 Materials

- 1.0 mm cold-rolled steel body, powder coated
- Chemical-resistant **phenolic resin** work table
- Acid- and alkali-resistant, removable liner
- Folding acrylic window with free stop

03 Handling

- Vertical-surface design with a wide view
- Counterweighted, height-adjustable window
- Base bracket with casters for moving and levelling
- Side lifting handles; push-button controls

04 In the box

- Built-in PP blower
- Active carbon filter
- 4 m PVC exhaust duct, Φ250 mm, and pipe strap
- LED lamps 2 × 4 W · options: 15 W UV lamp, HEPA filter

TECHNICAL SPECIFICATIONS

Technical specifications

Parameter	FH700
DIMENSIONS	
External Size (W*D*H)	700*620*1150mm
Internal Size (W*D*H)	640*550*700mm
Max Opening	660mm
Gross Weight	100kg
Package Size (W*D*H)	840*760*1400mm
AIRFLOW	
Air Velocity / CFM	0.3~0.8m/s, 250 m^3/h (147cfm). 4-gear speed
Blower	Built-in centrifugal blower; Speed adjustable
Noise	≤65dB
CABINET	
Front Window	Folding acrylic window, down part with free stop function
Back & Side Windows	5mm toughened glass
Material	Main Body 1.0mm cold-rolled steel with bacteria power coating
Work Table	Chemical resistant phenolic resin
LED Lamp	4W*2
ELECTRICAL	
Consumption	200W
Power Supply	AC220V±10%, 50/60Hz; 110V±10%, 60Hz
ACCESSORIES	
Standard Accessory	LED lamp, Active carbon filter, Blower, 4 meters PVC exhaust duct (Φ 250mm), Pipe strap
Optional Accessory	15W UV lamp, HEPA filter

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

AT A GLANCE

MODEL

FH700

External size
700 × 620 × 1150 mm

Internal size
640 × 550 × 700 mm

Package
840 × 760 × 1400 mm

Gross weight
100 kg

GOOD PRACTICE FOR SAFE CAPTURE

Topic	Guidance
Face velocity	Many laboratories design for 0.4–0.5 m/s at the working sash height.
Verification	Containment is verified on site, for example to ANSI/ASHRAE 110 or EN 14175-3.
Room air	Supply diffusers and doors should not blow across the opening; make-up air must replace the exhaust.
Ductwork	Run the duct to the outside, as short and straight as practical, with the fan sized for duct losses.

General guidance for planning; follow local regulations and your safety officer's requirements.

APPLICATIONS & SERVICE

Where it works, and what comes with it

Small-scale chemistry
Bench work with solvents and reagents.

Sample preparation
Weighing and dispensing volatile samples.

Teaching labs
A compact hood for each bench.

Odour control
Carbon filtration in the exhaust path.

INSTALLATION

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

Exhaust
Duct to the outside; 4 m PVC duct, Φ250 mm, supplied.

Bench
Rigid bench for 100 kg.

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.

DS-FH700-EN · Rev. B · Nov 2026 · Calculated values are reference figures.
Specifications may change without notice for product improvement.

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Laboratory and environmental test equipment