LORDERAN

TECHNICAL DATASHEET
DS-FH-W-EN · REV. B · NOV 2026

LABORATORY FUME HOOD

Floor-Level **Walk-in Fume Hood**

For set-ups too large for a bench hood — a **1670 mm** interior from the floor, a **1300 mm** opening and **1150–1850 m³/h** of exhaust.

MODELS

- FH1200W
- FH1500W
- FH1800W



1670 mm INTERIOR HEIGHT	**1300** mm MAX OPENING	**0.3–0.8** m/s INFLOW VELOCITY	**1150–1850** EXHAUST, M³/H
62 dB NOISE	**≥ 800** lux ILLUMINATION	**≤ 4** µm VIBRATION, XYZ	**Φ300** mm 4.3 M DUCT

01 **Roll straight in**
Carts, racks and pilot equipment enter at floor level.

02 **Services outside**
Remote water and gas valves switch from outside the hood.

03 **Acid- and alkali-resistant**
Melamine interior; PP cup sink inside.

APPLICATIONS

Pilot plant set-ups · Instrument enclosures · Drum and cart work · Scale-up chemistry

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

A large room exhaust, built into one cabinet

A floor-level walk-in fume hood for instruments and set-ups too large for a bench hood. The 1670 mm tall interior starts at floor level, so carts, racks and pilot equipment roll straight in, and operators can step inside when needed.

The external blower pulls air in across the full opening at **0.3–0.8 m/s** and up through the duct, keeping fumes inside the hood and away from the lab. An external blower exhausts 1150 to 1850 m³/h through a Φ300 mm duct.

HOW IT WORKS

01 Full-height opening
Manual toughened-glass front, anti-UV, up to 1300 mm.

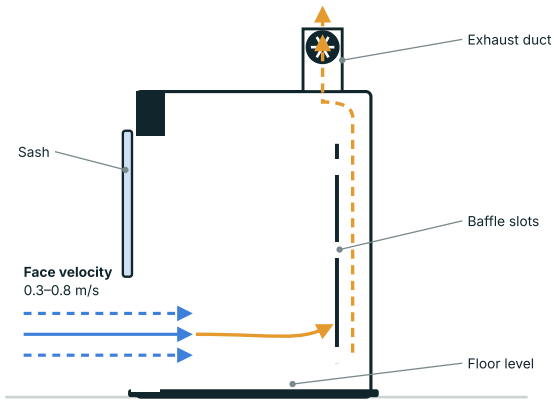
02 External blower
1150–1850 m³/h by model through a 4.3 m PVC duct, Φ300 mm.

03 Interior
High-grade melamine board resistant to acids and alkalis.

04 Services
PP cup sink, water and gas taps; remote-control valves outside.

05 Lighting
≥ 800 lux; four waterproof sockets, ≤ 500 W total.

Side section. Schematic. The work area starts at floor level; room air (blue) enters across the opening and fume-laden air (orange) leaves through the duct to the external blower.



INTERIOR
1670 mm
from floor level

EXHAUST
1150–1850 m³/h
by width

INFLOW
0.3–0.8 m/s
across the opening

NOISE
62 dB
vibration ≤ 4 µm

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.

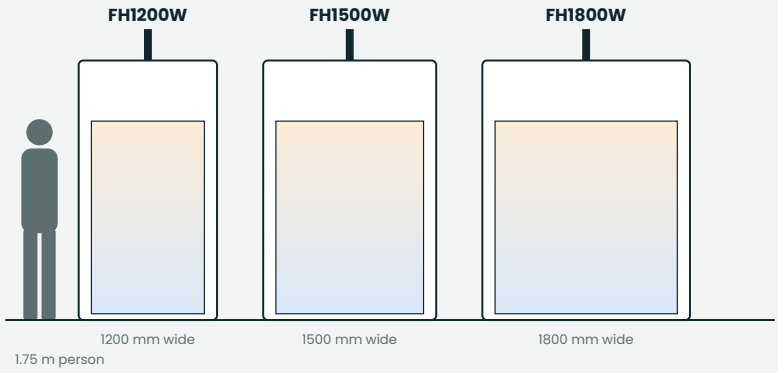
Work 15 cm inside
Keep sources at least 150 mm behind the sash plane, where capture is strongest.

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

Services and safety included



01 Exhaust

- External blower system
- 4.3 m PVC exhaust duct, **Φ300 mm**
- Inflow velocity **0.3–0.8 m/s**
- Exhaust **1150–1850 m³/h** by model
- Noise 62 dB

02 Services

- Water tap and gas tap
- PP cup sink
- **Remote-control** water and gas valves
- Four waterproof sockets, ≤ 500 W total

03 Build

- Cold-rolled steel exterior, powder coated
- **Melamine** interior, acid- and alkali-resistant
- Manual toughened-glass window, anti-UV
- Lighting ≥ 800 lux
- Vibration ≤ 4 µm in X, Y and Z

TECHNICAL SPECIFICATIONS

Technical specifications

Parameter	FH1200W	FH1500W	FH1800W
External size	1200*800*2250 mm	1500*800*2250 mm	1800*800*2250 mm
Internal size	980*550*1670 mm	1280*550*1670 mm	1580*550*1670 mm
Exhaust airflow	1150m3/h	1500m3/h	1850m3/h
Lamp	12W*2	16W*2	16W*2
Consumption	400W	500W	800W
Gross weight	300kg	340kg	390kg
DIMENSIONS			
External Size (W*D*H)	1200*800*2250 mm	1500*800*2250 mm	1800*800*2250 mm
Internal Size (W*D*H)	980*550*1670 mm	1280*550*1670 mm	1580*550*1670 mm
Max Opening	1300 mm		
Package Size (Main Body)	1400*1050*2450 mm	1700*1050*2450 mm	2010*1050*2450 mm
Package Size (Base Cabinet)	970*810*720 mm	1040*890*710 mm	1040*890*710 mm
AIRFLOW			
Exhaust Airflow Volume	1150m3/h	1500m3/h	1850m3/h
Inflow Air Velocity	0.3~0.8m/s		
Noise	62dB		
Vibration	XYZ direct ≤4μm		
CABINET			
Illumination	≥800Lux		
Fluorescent Lamp	12W*2	16W*2	16W*2
Front Window	Manual, Toughened glass		
Material	Exterior: 1.0mm cold-rolled steel with bacteria powder coating. Interior: High grade melamine board with good acid and alkali resistance function		
ELECTRICAL			
Sockets	Total load of 4 waterproof sockets: ≤500W		
Power Supply	AC220V±10%, 50/60Hz; 110 V±10%, 60Hz		
ACCESSORIES			
Standard Accessory	External Blower, LED lamp, Water tap, Gas tap, PP cup sink, Remote control water valve, Remote control gas valve, Waterproof sockets*4, 4.3 meters PVC exhaust duct (Φ 300mm)		

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

AT A GLANCE

MODEL	External size	Internal size	Exhaust	Gross weight
FH1200W	1200 × 800 × 2250 mm	980 × 550 × 1670 mm	1150 m³/h	300 kg
FH1500W	1500 × 800 × 2250 mm	1280 × 550 × 1670 mm	1500 m³/h	340 kg
FH1800W	1800 × 800 × 2250 mm	1580 × 550 × 1670 mm	1850 m³/h	390 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

Pilot plant set-ups
Large glassware rigs and reactors.

Instrument enclosures
Equipment that does not fit a bench hood.

Drum and cart work
Roll-in access at floor level.

Scale-up chemistry
Generous exhaust for larger volumes.

INSTALLATION

Exhaust
Φ300 mm duct to the outside; make-up air for up to 1850 m³/h.

Access
2250 mm overall height; main-body crate 2450 mm tall.

Services
Water, gas and power to the hood location.

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-FH-W-EN · Rev. B · Nov 2026 · Calculated values are reference figures.
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www.lorderan.com
Laboratory and environmental test equipment