LORDERAN

TECHNICAL DATASHEET
DS-1200E-1500E-EN · REV. B · NOV 2026

LABORATORY FUME HOOD

4 / 5 ft
Ducted Chemical Fume Hood

Fumes go up and out, not toward you — a **2300 m³/h** PP fan, **0.3–0.8 m/s** at the sash and smart **touch-screen** control.

MODELS

1200E · 4 ft

1500E · 5 ft



2300 m³/h EXHAUST VOLUME	**0.3–0.8** m/s FACE VELOCITY	**≤ 65** dB(A) NOISE LEVEL	**500** mm MAX SASH OPENING
1–2 USERS	**920** mm WORKTOP HEIGHT	**5-inch** LCD TOUCH SCREEN	**3** years WARRANTY

01 PP centrifugal fan
High airflow, low noise, resistant to corrosive fumes.

02 Counterweight sash
5 mm tempered glass that stays at any height.

03 Phenolic worktop
One piece, resists chemicals; tap, valve and sink.

APPLICATIONS

Chemical synthesis · Sample digestion · QC & teaching labs · Odour control

3-year warranty
Major defects: full refund or replacement.

Free DDP shipping
Duties paid, no surprise import charges.

30-day returns
Most new, unopened items.

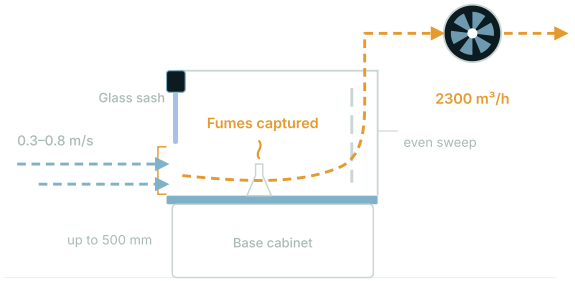
PRODUCT OVERVIEW

Fumes go up and out, not toward you

A ducted chemical fume hood with smart touch-screen control. Room air is drawn in at the sash, sweeps the worktop to the rear baffle, and a PP centrifugal fan sends the fumes outside through the duct — away from the operator.

The counterweighted 5 mm tempered-glass sash stays at any height you set. Lower it for faster capture: the same exhaust through a smaller opening means a higher face velocity.

Airflow. Blue: room air. Orange: fume-laden exhaust to the outside.



HOW IT WORKS

01 Sash inflow
Room air enters at the sash at 0.3–0.8 m/s.

02 Rear baffle
Air sweeps the worktop to the baffle and up into the duct.

03 PP centrifugal fan
Up to 2300 m³/h; high airflow, low noise.

04 Control
5-inch LCD touch screen shows running status.

05 Worktop & services
One-piece phenolic worktop; wall-mounted tap, valve and sink; two waterproof sockets.

EXHAUST
2300 m³/h
PP centrifugal fan

FACE VELOCITY
0.3–0.8 m/s
at the sash

SASH
500 mm
maximum opening

NOISE
≤ 65 dB(A)
at the operator

EXHAUST AND CAPTURE

Q = v × W × 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.

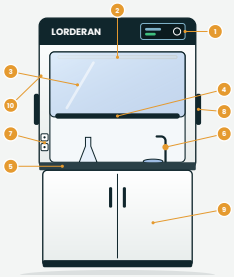
Keep the baffle clear
Large items near the opening or blocking the rear slots create eddies that carry vapour out.

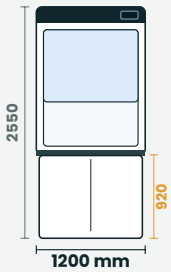
FEATURES

Everything in its place



Tap, cup sink and sockets





01 Control & lighting

- **5-inch LCD touch screen** shows running status
- **LED lamp**, 12 W, bright and even
- Two waterproof sockets at the work zone

02 Sash & body

- **5 mm tempered glass** sash, clear wide view
- **Counterweight** sash stays at any height
- Cold-rolled steel body, electrostatic coating
- Side lifting handles

03 Worktop & services

- One-piece **solid phenolic** worktop, chemical resistant
- Wall-mounted **tap, valve and sink**, flow controlled
- Large coated-steel base storage cabinet

04 Accessories

- Standard: LED lamp, 2 sockets, **T/H sensor**, water tap
- Optional: activated carbon, HEPA or chemical **filters**
- Optional: UV lamp, gas tap, padded armrests × 2

TECHNICAL SPECIFICATIONS

Technical specifications

Parameter	4 ft · 1200E	5 ft · 1500E
SIZE		
External (W×D×H)	1200 × 800 × 2550 mm	1500 × 800 × 2550 mm
Internal (W×D×H)	990 × 605 × 900 mm	1290 × 605 × 900 mm
Worktop height	920 mm	
Max sash opening	500 mm	
Users	1–2	
AIRFLOW		
Exhaust volume	2300 m^3/h	
Face velocity	0.3–0.8 m/s	
Noise	≤ 65 dB(A)	
Fan	PP centrifugal fan	
ELECTRICAL AND CONTROL		
Rated power	300 W	320 W
Power supply	220 V ±10%, 50 Hz (standard) 110 V ±10%, 60 Hz (optional)	
Control	5-inch LCD touch screen	
Lighting	LED lamp, 12 W	
CONSTRUCTION		
Body	Cold-rolled steel, electrostatic spray coating	
Sash	5 mm tempered glass, counterweight balanced	
Worktop	One-piece solid phenolic, chemical resistant	
Base cabinet	Large storage cabinet, electrostatic coating	
WEIGHT AND SHIPPING		
Net weight	181 kg	238 kg
Gross weight, hood	214 kg	276 kg
Gross weight, base stand	102 kg	122 kg
Crate, hood (W×D×H)	1360 × 960 × 1910 mm	1658 × 958 × 1937 mm
Crate, base stand (W×D×H)	1360 × 960 × 1045 mm	1658 × 958 × 1061 mm

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

AT A GLANCE

MODEL

1200E · 4 ft

External size
1200 × 800 × 2550 mm

Internal size
990 × 605 × 900 mm

Rated power
300 W

Net weight
181 kg

MODEL

1500E · 5 ft

External size
1500 × 800 × 2550 mm

Internal size
1290 × 605 × 900 mm

Rated power
320 W

Net weight
238 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

Chemical synthesis
Ducted capture of solvent and acid vapours.

Sample digestion
Hot acid work behind a lowered sash.

QC & teaching labs
One or two operators per hood.

Odour control
Optional carbon and chemical filters.

INSTALLATION

Exhaust
Ducted to the outside of the building; up to 2300 m³/h.

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

Delivery
Two crates: hood up to 1658 × 958 × 1937 mm, and base stand.

WARRANTY & SERVICE

3-year 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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Laboratory and environmental test equipment