LORDERAN

TECHNICAL DATASHEET
DS-BBS-V500-EN · REV. B · NOV 2026

CLEAN AIR EQUIPMENT

Benchtop **Compounding Hood**

A particle-free zone on any bench — HEPA-filtered laminar flow at **0.3–0.5 m/s** under constant **positive pressure**, from **550 mm** wide.

MODELS BBS-V500 BBS-V600 BBS-V700





V700

HEPA
FILTERED LAMINAR FLOW

0.3–0.5 m/s
AIRFLOW VELOCITY

≤ 60 dB
QUIET OPERATION

550–700 mm
BENCHTOP WIDTHS

100–300 W
CONSUMPTION

57–100 kg
GROSS WEIGHT

304
STAINLESS WORK TABLE

3 years
WARRANTY

01 Constant positive pressure
Contaminated room air cannot reach the sample.

02 Washable pre-filter
Polyester fibre protects the HEPA filter.

03 Small footprint
Three sizes from 550 mm for crowded benches.

APPLICATIONS
Pharmacy compounding · Sample preparation · Weighing · Teaching labs

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.

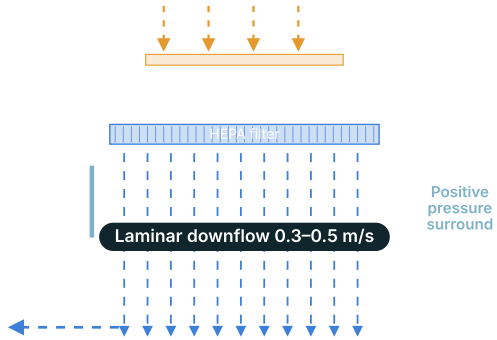
PRODUCT OVERVIEW

A particle-free zone on any bench

A benchtop laminar flow cabinet for clean, particle-free compounding and sample preparation. Room air passes a washable pre-filter and a HEPA filter, then flows across the work surface at **0.3–0.5 m/s**.

The sides are enclosed and the cabinet runs under constant positive pressure, so contaminated room air cannot reach the sample. Laminar flow cabinets protect the sample only — use a biosafety cabinet or fume hood when the operator must be protected from the material.

Laminar downflow. HEPA-filtered air flows down over the work at 0.3–0.5 m/s and leaves through the front.



HOW IT WORKS

01 Pre-filter
Washable polyester-fibre pre-filter protects the HEPA filter.

02 HEPA filter
Clean air released in a laminar, one-direction stream.

03 Positive pressure
Enclosed sides keep room air out of the work zone.

04 UV lamp
8 or 15 W UV for decontamination between sessions.

05 Clean surfaces
304 stainless steel work table that wipes clean.

AIRFLOW
0.3–0.5 m/s
laminar, one direction

NOISE
≤ 60 dB
quiet benchtop operation

POWER
100–300 W
by size

WEIGHT
57–100 kg
gross, by size

CLEAN-AIR VOLUME

Q = v × A

Air volume = face velocity × filter face area. 1 m/s across 1 m² moves 3,600 m³/h of HEPA-filtered air.

Sample protection only
A laminar flow cabinet protects the work, not the operator. Use a biosafety cabinet for hazardous material.

Keep upstream clean
Nothing should sit between the filter and the sample; hands and tools go downstream.

Purge before work
Run the fan for several minutes before starting so the zone is flushed with filtered air.

FEATURES

Simple to run, easy to clean



Front view



Control panel

01 Clean air

- **HEPA filter** on all models
- Washable polyester-fibre pre-filter
- **0.3–0.5 m/s** laminar airflow
- Constant positive pressure

02 Cabinet

- **304 stainless** work table
- Anti-bacteria powder-coated steel body
- V500: manual 5 mm toughened anti-UV glass
- V600: manual acrylic window
- UV lamp for decontamination

03 Practical

- Benchtop footprint from **550 mm** wide
- Noise at or below **60 dB**
- Low power, from **100 W**
- V600 waterproof socket included; optional base stand

TECHNICAL SPECIFICATIONS

Technical specifications

Parameter	BBS-V500	BBS-V600	BBS-V700
Display	LED	LCD	LED
Max opening	310mm	590mm	660mm
UV lamp	8W*1	8W*1	15W*1
LED lamp	4W*1	4W*1	4W*2
Consumption	100W	150W	300W
DIMENSIONS			
External Size (W*D*H) mm	550*460*700	600*581*1115	700*620*1150
Internal Size (W*D*H) mm	480*340*370	580*520*613	640*550*700
Gross Weight	57kg	90kg	100kg
Package Size (W*D*H) mm	700*610*830	760*740*1280	840*760*1400
AIRFLOW AND FILTRATION			
Airflow Velocity	0.3~0.5m/s		
Pre-Filter	Polyester fiber, washable		
Filter	HEPA Filter		
CABINET			
Main Body	Cold-rolled steel with anti-bacteria power coating		
Work Table	304 Stainless steel		
Noise	≤60dB		
Front Window	Manual, 5mm toughened glass, anti UV	Manual, acrylic material	Manual, acrylic material
ELECTRICAL			
Power Supply	AC220V±10%, 50/60Hz; 110V±10%, 60Hz		
ACCESSORIES			
Standard Accessory	HEPA Filter, LED Lamp, UV Lamp*2.	HEPA Filter, LED Lamp, UV Lamp*2, Waterproof Socket.	HEPA Filter, LED lamp*2, UV Lamp*2
Optional Accessory	/	Base Stand	Base Stand

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

AT A GLANCE

MODEL
BBS-V500

External size
550 × 460 × 700 mm

Internal size
480 × 340 × 370 mm

Max opening
310 mm

Power · weight
100 W · 57 kg

MODEL
BBS-V600

External size
600 × 581 × 1115 mm

Internal size
580 × 520 × 613 mm

Max opening
590 mm

Power · weight
150 W · 90 kg

MODEL
BBS-V700

External size
700 × 620 × 1150 mm

Internal size
640 × 550 × 700 mm

Max opening
660 mm

Power · weight
300 W · 100 kg

AIR CLEANLINESS · ISO 14644-1 LIMITS, PARTICLES PER M³

Class	≥ 0.1 µm	≥ 0.2 µm	≥ 0.3 µm	≥ 0.5 µm	≥ 1 µm
ISO 5 (Class 100)	100,000	23,700	10,200	3,520	832
ISO 6	1,000,000	237,000	102,000	35,200	8,320
ISO 7	—	—	—	352,000	83,200
ISO 8	—	—	—	3,520,000	832,000

Maximum permitted concentration of particles equal to or larger than each size (ISO 14644-1:2015). A HEPA unidirectional work zone is typically ISO Class 5.

WHICH CLEAN-AIR CABINET?

	Laminar flow cabinet	Class II biosafety cabinet	Fume hood
Protects the sample	Yes	Yes	No
Protects the operator	No	Yes	Yes
Protects the room	No	Yes (filtered exhaust)	Yes (ducted exhaust)
Typical work	Sterile, non-hazardous preparation	Infectious or hazardous biological material	Volatile chemicals

General guidance; choose by the hazard of the material, not only by the cleanliness you need.

APPLICATIONS & SERVICE

Where it works, and what comes with it

Pharmacy compounding
Clean, non-hazardous preparations at the bench.

Sample preparation
Particle-free handling of small samples.

Weighing
Calm laminar air around a balance.

Teaching labs
Aseptic technique on a small footprint.

INSTALLATION

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

Bench
Rigid bench for up to 100 kg.

Room
Away from doors and air diffusers.

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