

AURA VERTICAL S.D.4™ Series DOWN-FLOW CABINETS: Quality with a flair of tradition

Technical Specifications

- **Vertical laminar air flow cabinet.**
- **Sliding Sash front window**
- **Electronic Control**
- **H14 filter with micromesh downstream equalising plenum for the highest airflow speed uniformity**
- **Side glass walls.**
- **Soft touch keys**

AURA VERTICAL S.D.4™ Cabinets are supplied in one dimension (1.2mt).

These state of the art down-flow cabinets, provide an ultimate cleanliness Class 100 work area where the highest safety for the products is achieved.

The internal design, the air flow aerodynamics and monitoring, the special H14 filter with Micromesh downstream equalising plenum, guarantees the highest performances at the most stringent safety levels and operator comfort.

This unit works on a recirculating mode with air being filtered by an HEPA filter with 99.999% efficiency on 0.3µ particles, before entering the work area at a speed of 0.45 m/s; this ensures a Class 100 environment throughout the work area.

Air coming through the front aperture is then mixed with the downflow air, without affecting the product, and recirculated.

70% of the air is returned to the working area through the main HEPA filter and 30% is exhausted into the environment through an exhaust HEPA filter. This ensures double protection both for the product and for the operator even if this cabinet should not be used for handling pathogens.

The special sloped front design and the sliding sash ensure comfortable working position and, when needed, a very easy opening and closing of the front window.

A complete and user friendly tool for the protection of highly sensitive products that only experienced European design with over 35 years of know how and accurate quality manufacturing, can provide.



Main specifications

1. Ergonomically designed sloped front design for the highest operational comfort. with manually operated sliding sash. Unique x/y sliding sash. The sash has three pre-set positions:
 - a. fully open
 - b. standard working height
 - c. closed: air- and aerosol- tight
2. Stainless Steel internal surfaces with 2B finishing (including spillage tray). Perforated work surface (2 sections) and special designed front grill.
3. Tempered safety glass side walls for the best visibility and lightning
4. Comfortable 200mm front opening
5. Easy to install retrofit options through lateral sides.
6. H14 class High Efficiency Particulate Air filters guaranteed with 99.999% efficiency on 0.3 micron particles (most penetrating particle diameter) (EN1822-1 and EN 13091:1999 tested)

- and certified)
7. Exposed exhaust Hepa filter for easy visual integrity check.
 8. Exhaust and recirculating flow rates ensure 25 air changes/min in the working area (30% 70% split)
 9. Front barrier air speed $\geq 0.5\text{m/sec}$
 10. Aperture protection Factor (Apf) $\geq 1 \times 10^5$
 11. Electrical equipment according to International Standards and EMC directives
 12. 230V, 50Hz
 13. Elapsed time meter for filter life monitoring
 14. Lighting $> 700\text{ lux}$
 15. Soft touch keys on the control panel provide control of the lighting, motor blower, UV light, gas valve.
 16. Visible and acoustic alarms are provided for air speed alarm and filter clogging.
 17. Cabinet outer surfaces made of cold rolled steel with paint finish. Glass
 18. Working surface made of grade 3 stainless steel (304). Pre-punched holes for the easy installation of retrofit options.
 19. Micromesh membrane on HEPA filter downstream surface for perfect airspeed distribution
 20. CE marked
 21. Silent and quiet operation $< 62\text{dB(A)}$ due to the highly vibration-free suspensions of the fan(s).

Technical Features **AURA VERTICAL S.D.4™**

Work chamber dimensions (wxdxh)	1240 x 485 x 650 mm
Overall dimensions (wxdxh)	1355 x 785 x 1457 mm
Weight	175 kg
Power supply	230 V- 50 Hz
Power requirement	1.700 W
Lighting	$> 700\text{ lux}$
Noise level	$< 62\text{ dB (A)}$

Options

Stands and UV

AS00000	Stand for AURA Vertical S.D.4
AK00000	Mobile UV-light kit for AURA SD4 with timer

Transition Adapter

AZ15400	Standard passive transition adapter with vertical exhaust (trapezoidal)
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Optional utilities

APA0000	Installed Additional Vacuum tap
AZZA000	Retrofit Additional Vacuum tap Kit, not installed.
APB0000	Installed Additional power point kit
AP00000	Installed additional Gas tap and solenoid gas valve kit
AZ00000	Retrofit Additional Gas tap and solenoid gas valve kit, not installed

Other options

AC10000	2 - drawers file cabinet for all models
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Euroclone S.p.A. has a Quality System certified Dasa Raegister spa in compliance with UNI EN ISO 9001 (2000)