

## **AURA Mini Series**Downflow CABINETS

Cod. LV30600

## **Technical Specifications**

- Compact, vertical laminar air flow cabinet.
- Reduced size for the easiest installation in small or crowded labs.
- Easily convertible inward or outward barrier operating modes.
- Hinged front panel and side panels in tempered glass
- H14 downflow filter
- Filtrete<sub>®</sub> exhaust filter (or prefilters depending on configurations)
- Active PCR version
- Silent and quite operation <65dB(A)</li>



AURA Mini Cabinets are supplied in one compact size only (895mm).

These state of the art compact 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, the special H14 filter and the Filtrete® exhaust filter (or prefilters) guarantees the highest performances at the most stringent safety levels and operator comfort.





Two operating modes are available: inward air barrier and outward air barrier.

**INWARD** air barrier. In this configuration an air barrier flows through the front opening and is recirculated with the downflow air by a motor blower. 70% of the air is returned to the work area through the main HEPA filter and 30% is exhausted into the environment through a Filtrete® exhaust filter with gravimetric efficiency of 99% on  $3\mu m$  particles. In this configuration an excellent product protection is ensured, as well as an outstanding containment.

**OUTWARD** air barrier. In this case the air is sucked through the Filtrete® prefilter, mixed with the incoming recirculating air and then filtered through the main HEPA filter into the work area: here 30% of the air is exhausted through the front opening and 70% is recirculated. This configuration ensures the highest product protection.

In the INWARD configuration this unit can easily be used as an "active PCR" cabinet for DNA carry over blocking.

AURA Mini is 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. Centrifugal Motorblower with digital inverter for optimal performance.
- 2. Soft-touch keys on the control panel provide control of fan and lighting
- 3. Elapsed time-meter
- 4. Exhaust filter
- 5. Removable perforated work surface and back wall of the work chamber made of AISI 304 stainless steel
- 6. Cabinet outer surfaces made of cold rolled steel with antimicrobial epoxy paint finish
- 7. Front and side panels in 5mm thick tempered glass
- 8. H14 class High Efficiency Particulate Air filters guaranteed with 99.995% efficiency on 0.1-0.2 micron particles (MPPS) (EN1822-1)
- 9. Exhaust filter (or pre-filter) type Filtrete® with a gravimetric efficiency higher than 99% on 3µm particles
- 10. Standard features includes: LED lamp, elapsed Time meter
- 11. Optional cover with UV light (includes safety switch to turn off UV if cover is removed from the cabinet)
- 12. Electrical equipment according to International Standards and EMC directives
- 13. Soft touch keys on the control panel provide control of the lighting, motor blower, UV light
- 14. Lighting > 800 lux
- 15. Silent and quite operation <65dB(A) due to the highly vibration-free suspensions of the fan.
- 16. CE Marked





## Technical Features AURA Mini

Marks of conformity:         CE           Reference Standard:         IEC 61010-1:2010 / EN 61010-1:2010           IElectrical insulating/protection class [IEC 61140]:         I           Mains supply voltage:         220-230 V~ 50/60 Hz           Main fuses:         F5A H, 250V           LED lamp (W):         2x 13W           Required power line (W):         950           (3 A optional service socket included)         Absorbed power (W):           (3 A optional service socket included)         4           Absorbed power (W):         200           (fan and light on only)         200           Sustained impact maximum energy of the glass [EN 61010-1, clause 8.22] (1):         4           Ein 61010-1, clause 8.22] (1):         4           Window glass UVC radiations retention (%):         98           Leaktightness index [EN 12469]:         NA           Sterilizability index [EN 12469]:         NA           Sterilizability index [EN 12469]:         NA           1.2 USE ENVIRONMENTAL CONDITIONS           Use:         indoor           Altitude (m):         up to 2000           Temperature (°C):         from 10 to 35           Maximum relative humidity (%):         80 for temperatures up to 31 °C, decreasing linearly to 50 at 40 °C           Max	1.1 SPECIFICATIONS		
IEC 61326-1:2012 / EN 61236-1:2013	Marks of conformity:	CE	
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` '	Overall L x D x H (mm):	850 x 590 x 820	
		735 x 180/300	

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Partita IVA e Codice Fiscale: 11078210967

Cap. Soc. Euro 3.000.000 i.v.

Sede Legale: Via Pagano, 61 - 20145 Milano - Italy

Sede Operativa: Via Lombardia, 12 - 27010 Siziano (PV) - Italy





Working space L x D x H (mm):	735 x 420 x 480
Safe work area L x D (mm):	575 x 260
Required operational space around (mm): [above - left - right - front]	300 - 0 - 200 - 1000

1.5 MATERIALS		
Main structure:	cold rolled steel, epoxy powder coated, antimicrobial effect	
Working surface and inner front wall:	stainless steel AISI 304 - 2B finishing	
Front window:	tempered safety glass	
1.6 PERFORMANCES		
Laminar Air Flow mean velocity [EN 12469](m/s):	0,37 ÷ 0,43	
Inflow Air Barrier mean velocity (m/s):	0,2 ±10%	
Exhaust Air flow rate (m <sup>3</sup> /h):	100 ±10%	
Exhaust Air flow ratio (%):	25 ±10	
Apf - Aperture Protection Factor [EN 12469]: (Retention efficiency at front aperture)	NA	
Working space air cleanliness class [EN 14644-1]:	ISO 3	
Illuminance [EN 12469] (lux):	>750	
Sound level [EN ISO 3744] (dB[A]):	<65	
Vibration [EN 12469] (mm RMS):	NA	
Max increase inside cabinet in temperature from the ambient [EN 12469] (°C):	<5	
1.7 FILTERS DIMENSIONS AND FEATURES		
LAF filter dimensions L x D x H (mm):	762 x 305 x 68	
Filters efficiency class [EN 1822-1]:	H14	
Filters global MPPS efficiency [EN 1822-1](%):	99,995	
MPPS diameter [EN1822-1](µm):	0,1 ÷ 0,3	

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