AURA Mini Series
Downflow CABINETS

Cod. LV30500

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® exhaust filter (or prefilters depending on configurations)
- Active PCR version
- Silent and quite operation <65dB(A)

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 3µm 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 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: Fluorescent 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

1.1 SPECIFICATIONS	
Marks of conformity:	CE
Reference Standard:	IEC 61010-1:2010 / EN 61010-1:2010 IEC 61326-1:2012 / EN 61236-1:2013
Electrical insulating/protection class [IEC 61140]:	I
Mains supply voltage:	220-230 V~ 50/60 Hz
Main fuses:	F5A H, 250V

Fluorescent lamp (W):	1x 24 T5 840
Required power line (W): *(3 A optional service socket included)*	950
Absorbed power (W): *(fan and light on only)*	200
Sustained impact maximum energy of the glass [EN 61010-1, clause 8.2.2] (J):	4
Window glass UVC radiations retention (%):	98
Leaktightness index [EN 12469]:	NA
Cleanability 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 mains supply voltage fluctuations (%):	up to ±10
Transient overvoltage category:	II
Pollution degree:	2
1.3 TRANSPORT AND STORAGE CONDITIONS	
Ambient temperature (°C):	from -5 to 45
Relative humidity (%):	up to 90
Atmospheric pressure (mbar):	from 800 to 1060
1.4 PESO E DIMENSIONI	
Weight (kg):	65
Overall L x D x H (mm):	850 x 590 x 820
Front aperture L x H (mm) :	735 x 180/300
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
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^3/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