

# HZ™ Series

Cross-flow Cabinets: Quality with a flair of tradition

## Characteristics

- Horizontal laminar air flow cabinet
- Last generation Microprocessor control
- Automatic airflow monitoring
- Reduced air flow switch
- H14 filter with micromesh downstream equalising plenum for the highest airflow speed uniformity
- Micromesh foil for maximum eye comfort
- Side glass walls with Lateral Flow Effect (LFCTM) assembly
- Silent and quite operation < 59 dB(A)



HZ™ Cabinets are supplied in two different sizes (1.2 mt and 1.8 mt). These state of the art cross-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.

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.



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## Main Specifications

1. Automatic air control: AURA HZ is a horizontal laminar air flow cabinet, Class 100, for product protection from external contamination and cross-contamination inside the working chamber. The air speed is, for the highest product safety, permanently controlled
2. Lateral Flow Concept side walls: special tempered-glass side walls are installed inside the air flow, to prevent any leakage from the outside, thanks to the Venturi-effect
3. Operating mode: the air flow, leaving the HEPA filter at a constant speed, produces an extremely clean - better than Class 100 - environment in the work area, preventing any contamination to enter from the ambient outside
4. High efficiency washable polyurethane prefilters remove coarse particles before the air reaches the H14 filter
5. H14 class High Efficiency Particulate Air filters guaranteed with 99.995% efficiency on 0.3 micron particles (most penetrating particle diameter) (EN1822-1 and EN 13091:1999 tested and certified)
6. Electrical equipment according to International Standards and EMC directives
7. Lighting >800 lux
8. Electronic control air speed. The average volumetric air flow is monitored via an integral vane anemometer and controlled by a microprocessor. Average speed is maintained in the range of 0.5 m/sec  $\pm$  20; (Federal Standard 209E)
9. A bar graph displays the air speed value. High or low airflows are shown in red
10. Soft touch keys on the control panel provide control of the lighting, motor blower, UV light
11. Visible and acoustic alarms are provided for air speed alarm and filter clogging
12. Cabinet outer surfaces made of cold rolled steel with paint finish
13. Working surface made of grade 3 stainless steel (304). Pre-punched holes for the easy installation of retrofit options
14. Side panels in tempered glass
15. Micromesh membrane on HEPA filter downstream surface for perfect airspeed distribution
16. CE marked
17. Silent and quiet operation <59 dB(A) due to the highly vibration-free suspensions of the fan(s)



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## Technical Features

	HZ 48	HZ 72
Work chamber dimensions (LxDxH)	1130 x 620 x 740 mm	1790 x 620 x 740 mm
Overall dimensions(LxDxH)	1270 x 1050 x 1360 mm	1920 x 1050 x 1350 mm
Weight	128 kg	194 kg
Power supply	230 V - 50 Hz	230 V - 50 Hz
Power requirement	0,42 Kw	0,8 Kw
Noise level	< 59 dB(A)	< 60 dB(A)
Lighting	> 800 lux	> 800 lux

## Options

Code	Stands and UV
AS22000	Stand for AURA HZ 48
AS23000	Stand for AURA HZ 72
AK20001	UV lamp for AURA HZ48 and HZ72 (to be ordered in conjunction with AZ61000 or AZ60000)

Code	Optional Utilities
AZ32000	Retrofit additional Double gas tap for all models
AZ31000	Retrofit additional Single gas tap for all models
AZ32001	Retrofit additional Double vacuum tap for all models
AZ31001	Retrofit additional Single vacuum tap for all models
AZ60000	Retrofit additional Kit Double power point for all models
AZ61000	Retrofit additional Single power point for all models

Code	Other Options
AC10000	2- drawers file cabinet for all models

