AURA HZ Series
Crossflow cabinets

Aura HZ48T – LH20600
Aura HZ72T – LH30600

AURA HZT Series
Quality with a flair of tradition

Technical Specifications
• 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 (LFC) assembly.

AURA HZT cabinets are supplied in two different sizes (1.2mt and 1.8mt).
These state of the art crossflow cabinets, provide an ultimate cleanliness ISO3 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.

Main specifications

1. Automatic air control: AURA HZT is a horizontal laminar air flow cabinet, ISO3 as per ISO14644-1, 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 0.1-0.2micron particles (MPPS) (EN1822-1)
6. Electrical equipment according to International Standards and EMC directives
7. 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 0.4m/sec ± 10%
8. A bar graph displays the air speed value. High or low airflows are shown in red.
9. Soft touch keys on the control panel provide control of the lighting, motor blower, UV light.
10. Visible and acoustic alarms are provided for air speed alarm and filter clogging. Operation hours counter to monitor usage.
11. Cabinet outer surfaces made of cold rolled steel with paint finish
12. Working surface made of grade 3 stainless steel (AISI304). Pre-punched holes for the easy installation of retrofit options.
13. Side panels in tempered glass
14. Micromesh membrane on HEPA filter downstream surface for perfect airspeed distribution
15. CE marked
16. Up to four plugs installable near the light on the ceiling of the cabinet to leave working surface free
17. DOP test port on the right side for fast & easy check of the filter integrity
18. Reduced flow mode to keep the work area clean when not working
19. LED light for work area illumination

Technical Features HZ™ Series

MAIN PARAMETERS

	AURA HZ48 T	AURA HZ72 T
Mains:	230 V~ 50/60 Hz	
Installation power (W): (700 W service socket included)	1400/1500	1800/1900
Power adsorption: (fan and light on only)	650/700	1150/1200
Reference Standard:	EN 61010-1	

Electric insulating class:	I	
Lighting (lux):	>800 (LED)	
Vibration (mm RMS):	<0,005	
Max increase in ambient temperature (°C):	<5	
Sound level (dB(A)):	<63	
Weight (kg):	130	195
Overall dimensions L x D x H (mm):	1270x1050x1360	1920x1050x1360
Working area dimensions L x D x H (mm):	1130x620x740	1790x620x740
Filter dimensions L x D x H (mm):	1219x762x70	1829x762x70
Filter efficiency class (EN1822-1):	H14	
Filter global MPPS efficiency (EN1822-1):	99.995%	
MPPS size (EN1822-1):	0,1 ÷ 0,3 µm	
Working area class (EN14644-1):	ISO 3	
Laminar Air Flow mean velocity (m/s):	0,40 ± 10%	
Air Flow Rate (m3/h):	1250 ± 10%	1900 ± 10%

TRANSPORT AND STORAGE CONDITIONS

Ambient temperature (°C):	min -15 / max 50
Relative humidity (%):	max 90
Atmospheric pressure (mbar):	min 800 / max 1060

USE ENVIRONMENTAL CONDITIONS

Use:	indoor
Altitude:	up to 2000 m
Temperature:	from 5 °C to 40 °C
Maximum relative humidity:	80% for temperatures up to 31 °C, decreasing linearly to 50% at 40 °C
Max MAINS supply voltage fluctuations:	±10%
TRANSIENT OVERVOLTAGE CATEGORY:	II
POLLUTION DEGREE:	2

MATERIALS

Main structure:	cold rolled steel with epoxy paint coating
Work surface:	stainless steel AISI 304 - SB finishing
Side walls:	tempered safety glass

Options and Accessories

- Power Outlet (IT-D standard, "Schuko")   AZ46000
- Double Power Outlet (IT-D standard, "Schuko")   AZ46090
- Stand for AURA HZ 48T   AS22000

- Stand for AURA HZ 72T   AS23000
- UV Lamp for AURA HZ48T and 72T (uses a plug slot)   AK20002

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Pricing on any accessories shown can be found by keying the part number into the search box on our website.

The specifications listed in this brochure are subject to change by the manufacturer and therefore cannot be guaranteed to be correct.
If there are aspects of the specification that must be guaranteed, please provide these to our sales team so that details can be confirmed.

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