

VERTICAL LAMINAR AIR FLOW



Instruction Manual



Model : L 60B

Please read this manual carefully before using the instrument

Labnics Equipment

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CHAPTER 1. BEFORE USE :

Thank you for choosing **Labnics** Products

Please read this operation manual carefully before use for your safety and optimum operating performance. If you have any question, please contact sales representative or service department.

CHAPTER 2. FEATURES AND ADVANTAGE

Labnics Laminar Air Flow is.....

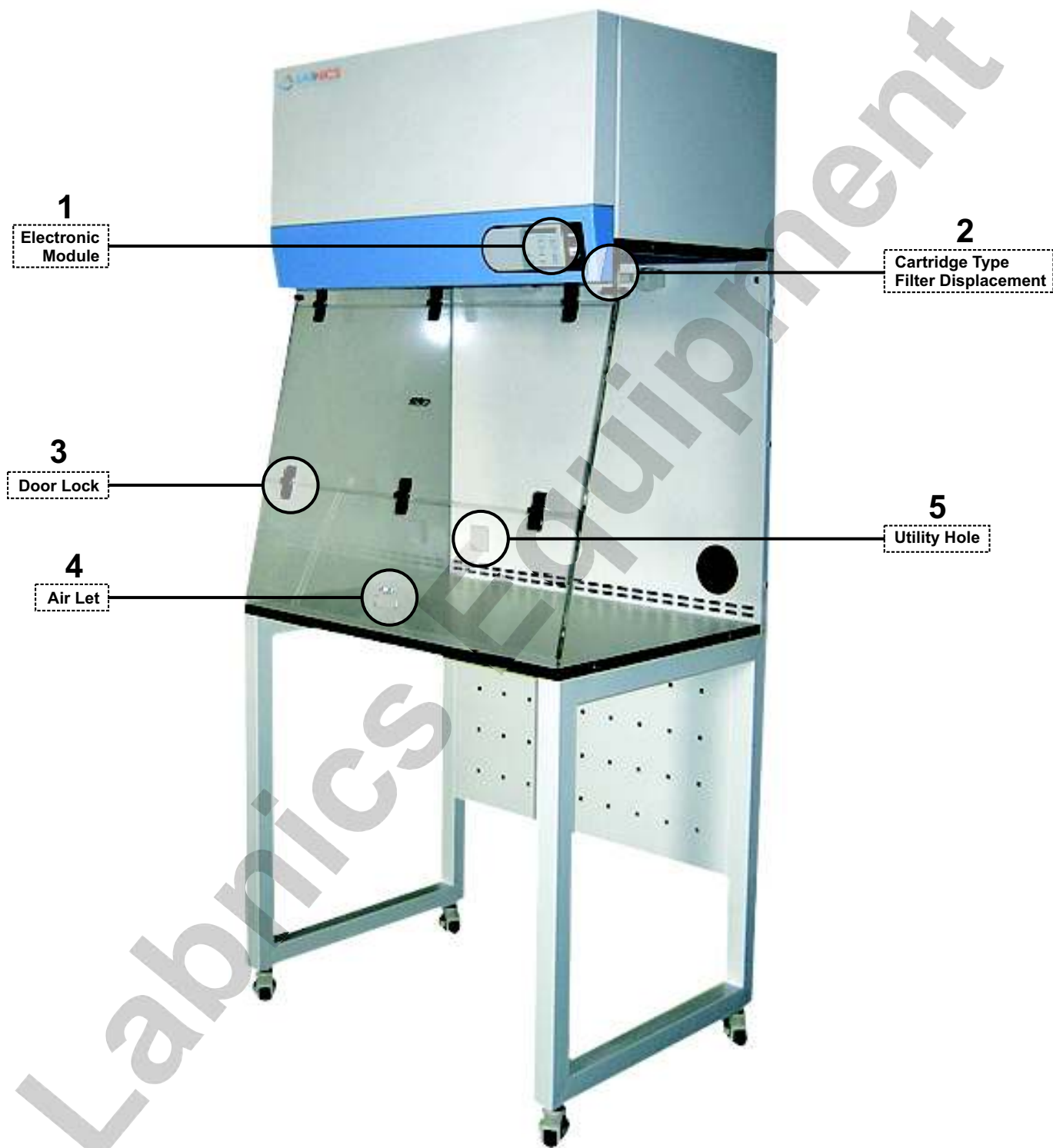
A class 100 air flow in the work area for operations where a product is of utmost importance. The unrestricted open front work area allows the use of equipment under sterile conditions.

The Laminar Air Flow Cabinet is designed to provide a high degree of protection for products in laboratories and production facilities. Many critical applications in the medical, pharmaceutical, nuclear-power, and micro electronic fields demand an ultra-clean work environment which is free from biological and particulate contamination.

Features:-

1. Class 100 Vertical Laminar Flow (These laminar air flow units are those where the particle count of size ≥ 0.5 micron is less than one hundred particle/ cubic feet, in the area of work).
2. High Visibility due to Acrylic plate Cover.
3. UV Lamp.
4. Fluorescent Lamp.
5. Display of Usage time.
6. 230V (110V is available).
7. Low Noise Blower.
8. Utility hole for using electronic, water, gas.

CHAPTER 3. PARTS AND FUNCTIONS





1 Electronic Module

All models are equipped with microprocessor to show the status of Filtering System Hood.

After every 60 hours usage or when gas sensor detects abnormal operation, electronics Modules gives alarm and sends on display previous filter exchange time and total Usage time is on display.



2 Cartridge Type Filter Displacement:-

Applied Gas Absorber you can easily open the door.



3 Door Lock

Door Lock is attached for your comfortable.



4 Air Let

Air inlet is designed for easy experiment Operation without opening the

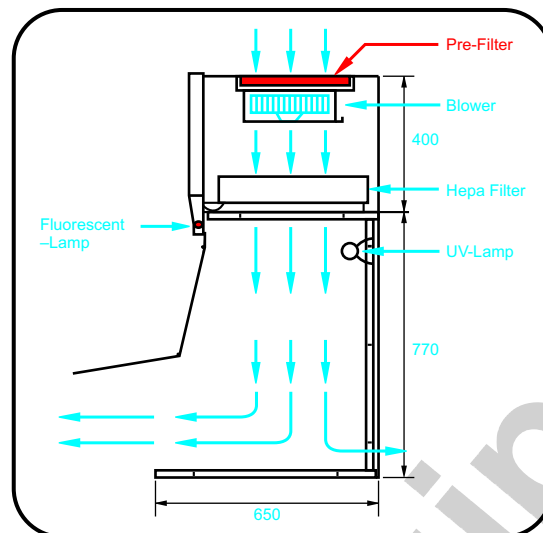


5 Utility Hole

The hole located at the lower corners of the hood can be used for water and Electricity during an experiment.

CHAPTER 4. OPERATION

4.1 Operational Principles



External Air ⇒ Sterile Air

The ambient air is drawn in through the pre-filter fitted in the upper side of the cabinet and it then passes after filtration through the HEPA filter into the Work-area in laminar air flow conditions and then exhausted outside from the frontal aperture and under the work surface.

CHAPTER 5. MAINTENANCE

PRE-FILTERS:

The prefilter is located horizontally on the top of the unit and should be kept in place at all times. The prefilter supplied with the unit is a fiberglass type similar to an air conditioning filter. Replacement prefilters are available from stock or it may be possible for you to obtain a useable substitute from an air conditioning supply company or hardware store located in your community. Pre-filters are required for removing the dust and moisture from air, gas in different stages.

HEPA FILTERS (HIGH EFFICIENCY PARTICULATE AIR):

The average life of a HEPA filter is 3 to 5 years or longer, depending on the cleanliness of the ambient air. HEPA filter with efficiency better than 99,995% MPPS (H14) and with a synthetic-fibers pre-filter with efficiency of 80%-90% ASHRAE. A loaded HEPA filter cannot be cleaned or recycled. HEPA filter engulfs the entire work area with sterile.

The spill guard edge, located around the work surface, will protect the acrylic windows from spills on the work surface. If liquid gets over the spill guard, remove the window and carefully clean and dry all components before reinstallation.

MOTOR BLOWER:

The motors blowers have the following characteristics:

Low noise level, low vibration level, compatibility with the variable speed control, and most importantly, the efficiency in delivering air through clean HEPA filters as well as those loaded with a moderate amount of particulate matter. The 3-pronged grounded power cord can be plugged into a standard grounded receptacle. The motor is located in the center of the blowers. It should rarely be necessary to work on the motor blower assembly. For access to the motor blowers, raise the prefilter and the top of the unit. Before servicing the motors, the power cord must be disconnected or, if this is difficult to reach, the fuses should be removed.

UV-LAMP:

UV light is generally ineffective for the disinfection of safety cabinets. Radiation is directional and therefore for it to have any effect, the cabinet must be totally empty. UV lamps are active microbicidally for a relatively short part of their working life, which is a fraction of their total lifetime as a source of visible (blue) light. The lamp must be changed whenever its efficiency is reduced (or regularly at a pre-determined frequency that ensures the light is still effective).

FLUORESCENT - LAMP:

The fluorescent light component is located in the overhead control panel/light housing. Fluorescent Lamp reduces heat-build up near the operator. User friendly light intensity and provision of replacement of the lamp.

CHAPTER 6. TECHNICAL SPECIFICATIONS

Model No.	L 60B
External size (W x D x H) mm	900 x 650 x 1170
Internal size (W x D x H) mm	880 x 630 x 768
Purification rank	ISO Class III
Rating air flow	11 CFM
Filtration efficiency	HEPA Filter (99.99% at 0.3µl)
Intensity of illumination (Lux)	1014 ~ 1480
Power (W)	430
Noise dB	≤ 64
Power supply	115 V 60 Hz / 110 V 50 Hz
Fluorescent lamp's spec & quantity	36 W x 1EA (FPLM 36 EX - D)
Material	Head: Steel with powder coating Glove Box: 8 T (Thickness) Acrylic
Catalog No.	48280102



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