

LN 090-120

LAMINAR FLOW CABINETS



LN series vertical laminar flow cabinets are designed for the applications with non-hazardous materials in particle free environment and offer complete product protection. LN series LAF cabinets are ideal for handling non-pathogenic samples, cell and tissue cultures. They are mostly used in microbiology for controls; pharmaceutical industry for product preparation; food industry for quality control; electronic and optic industry and in many other areas where product protection is essential.

The outer body of the cabinets is made of epoxy-polyester painted steel and the working table is made of single piece stainless steel for easy cleaning and decontamination.

Pre-filter has G4 efficiency for particles $\geq 0.5 \mu\text{m}$ and HEPA filter has H14 efficiency for particles $\geq 0.3 \mu\text{m}$. Both filters are easily accessible for replacement.

The LAF cabinets are completely microprocessor controlled and the control panel includes:

- On / Off switch
- Elapsed hour counter
- Reduced airflow speed button
- Light on / off button
- 15-min U.V. light timer control button
- Alarm led
- Digital display for airflow speed
- Airflow speed leds

Airflow speed is controlled continuously by the microprocessor control system and the airflow speed is always kept at 0.4 m/s by means of the automatic speed compensation system against clogged HEPA filter. In case of any failure, the user is also warned by audible and visible alarms for lower or higher airflow speed.

The HEPA filtered air is recirculated partially through the hollow side and back panels and thus the lifetime of both pre and HEPA filters are prolonged. By means of the recirculating air, the air blown towards the operator is also reduced.

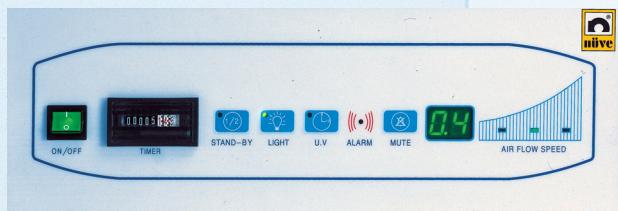
In addition to all of these advantages, LN series LAF cabinets offer excellent ergonomic conditions with high light intensity and low noise level.

TECHNICAL SPECIFICATIONS

	LN 090	LN 120
HEPA Filter		99.999 % efficiency for particles $\geq 0.3 \mu\text{m}$ (H14 Class according to EN 1822)
Pre-Filter		85 % efficiency for particles $\geq 0.5 \mu\text{m}$ (G4 Class according to EN 779)
Particle Count		Better than US Fed Std 209D Class 10 and VDI 2083 Class 3
Cabinet		Epoxy-polyester painted cold rolled steel sheet 2 mm.
Work table		AISI 304 Stainless Steel
Airflow speed control		Microprocessor control system with digital display and automatic speed compensation for rising filter resistance
Blower		Highly efficient centrifugal type with lifetime lubricated bearings
Light		High intensity, low wattage $\geq 800 \text{ lux}$
Noise level		$\leq 58 \text{ dBA}$
Standard Accessories		Elapsed hour counter, 2 pcs. mains power socket (2.5A)
Power Supply		230 V, 50 Hz.
Power Consumption	760 W	760 W
Internal Dimensions (WxDxH) mm	885x630x630	1190x630x630
External Dimensions (WxDxH) mm	1050x790x1390	1355x790x1390
Packing Dimensions (WxDxH) mm	1150x860x1520	1450x860x1470
Net / Packed Weight, kg.	165/197	185/227

OPTIONAL ACCESSORIES

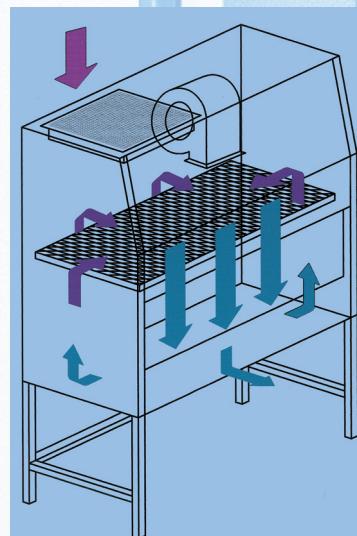
- S17 004 Support stand for LN 090
- S17 003 Support stand for LN 120
- M08 022 Gas valve
- M08 020 Vacuum valve
- K04 266 Front enclosure with U.V. light for LN 090
- K04 267 Front enclosure with U.V. light for LN 120



Microprocessor Control Panel



View from the inside of cabinet



Air flow direction



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ISO 9001:2008 ISO 13485:2003

We reserve the right to modify the design and description