VERTICAL LAMINAR AIR FLOW CABINET

The cabinet is designed for application requiring laminar air flow in order to protect the product against particle and bacterial contamination.

- fully automated operation controlled by microprocessor unit, securing optimal product protection
- high variability of customers versions
- easy and quite operation
- high reliability
- easy to clean

CONSTRUCTION

The cabinet is equipped with a motor ventilator with electronically controlled electromotor (ECC). The speed of the blower is controlled by microprocessor unit, which scans the velocity of laminar flow, and keeps it at the value set in the programme and optimizes power consumption and life of the filter. The scanned velocity is simultaneously displayed on the control unit display on the cabinet control panel, together with the information of supplied output of the electromotor, e.g.: velocity 0.45 m/s (output 55 %).

The above described solution reduces significantly power consumption. Unlike motors, speed of which are controlled by thyristor voltage controllers, this concept consumes only such amount of power which is necessary to achieve the flow rate selected.

As standard, cabinet are supplied with programmed velocity of 0.45 m/s. Upon request, the velocity can be adjusted within the range of 0.2 to 0.6 m/s. This programme change can be, upon customer´s request, also executed by service technician for the already delivered and operated cabinet..

The working board of the cabinet is made of rust-proof steel, the cabinet is lit by side and front window from the surrounding area and also by fluorescent lamp installed underneath the front panel. Electrical safety is increased by means of earth-leakage breaker.

STANDARD EQUIPMENT

- smooth stainless work desk with matte finish
- HEPA filters of H14
- fluorescent lamp
- communication in Czech and English language
- electric socket 230V/50 Hz

OPTIONAL ACCESSORIES

- stand to sit/stand
- stand with wheels
- LED lighting
- integration of microscope, monitor, incubator, etc.
- rear glass
- Standby mode
- another colour of front panel
- UV lamp, etc.

YOUR TECHNOLOGY INTEGRATION

As a direct manufacturer of cabinet we are able to provide superior customization and integration of your technology of choice. (including different microscopes, LCD panels, video camera, etc.).

YOUR SPECIALIST IN CLEAN ROOM TECHNOLOGY

LABOX spol. s r. o.
Brandýská 8, 250 90 Jirny
+420 **281 012 550**, info@labox.eu
www.labox.eu

LABOX FBB120

ADVANTAGE LAMINAR FLOW TECHNOLOGY
www.labox.eu

OPTIONAL ACCESORIES/CUSTOMIZATION

- **Integrated stand / separated** - laminar flow cabinet are constructed with integrated stand or it is calculated with installation on table (or stand).
- **Stand to sit / stand** - stand is standard selected with regard to the requirements for working conditions (recommended height 700 mm to sit and 950 mm to stand).
- **Mobile stand** - in case of necessary frequent transfer of device is stand equipped with wheels.
- **LED lighting** - is use especially for working with DNA , and in other case where is not desirable fluorescent lighting.
- **Integration of technology** - microscopes, incubators, LCD monitors, cameras, heated plate, holes, holders, hanging pole, etc.
- **Sloped front window** - with regards to the nature of the work is made glass front window straight or sloped.
- **Colour adjustments** - front panel can be made in different coours and it is possible to observe colour standard of laboratory.
- **UV lamp** - UV lamp is fitted with magnet and it is possible to install on any magnetic metal surface.
- **Standby mode** - optionally cabinet can be equipped with a switch to standby mode.
- **Holders** - at the request the cabinet is completed by any holders, hook, poles, etc.
- **Finish of work desk** - into work desk can be completed hole for waste, stand for scales, etc., work desk can be performed or continuous monitoring
- **Continuous monitoring** - cabinet can be fitted with continuous of measurement particle counters, temperature, humidity etc.
- **Higher efficiency of filtration** - cabinet can be fitted filter of class HEPA (H14) or ULPA.

TECHNICAL DATA

Cleanliness class	
US FS 209 E	100 (M 3, 5)
EN ISO 14644-1	ISO Class 5
EC GMP Volume 4, Annex 1	A
Other parameters	
Supply voltage	230V/50 Hz
Air flow rate *	0,45 m.s-1 ± 0,05
Noise level in workspace	max. 53 dB(A)
Noise level in environment	max. 55 dB(A)
Light intensity	min 700 lx
Socket maximal power input	1000 W
Filter efficiency **	HEPA H14

* programmable within the range of 0,20 až 0,60 m..s-1

** at the request can be used ULPA

STANDARD DIMENSIONS LINE

	external dimensions (mm)			workspace dimensions (mm)			(W)
	width	height	depth	width	height	depth	
FBB 120-9	880	1250	575	880	800	565	350
FBB 120-12	1180	1250	575	1160	800	565	380
FBB 120-16	1580	1250	575	1560	800	565	450
FBB 120-20	1980	1250	575	1960	800	565	700
FBB 120-24	2380	1250	575	2360	800	565	760

Please contact us, if you need another dimension or if you need special adjustments.

FOR MORE INFORMATION OR QUESTION VISIT OUR WEBSITES WWW.LABOX.CZ OR COTACT US ON obchod@labox.cz AND ALSO AT SEVERAL OTHER CONTACT INFORMATION LISTED ON OUR WEBSITE

- Production of laminar flow cabinet
- Design and supply of clean room
- Development and supply of component for clean rooms
- Measurement and validation laminar flow cabinet, clean rooms and hot air sterilisers
- Calibration of particle counter
- Installation of continuous oring
- Service (facility management)

LABOX spol. s r.o.®

YOUR SPECIALIST IN CLEAN ROOM TECHNOLOGY

LABOX spol. s r. o.
Brandýská 8, 250 90 Jirny
+420 **281 012 550**, info@labox.eu
www.labox.eu