

LABOX



LAMINAR FLOW CABINET FBB-IVF

- + Fully automated operation
- + Intuitive and quit operation
- + Low operation cost
- + Low vibration
- + Lifetime service support
- + Integrated monitoring and audit trail
- + Remote control
- + Full integration of microscope and heating pad



BASIC DESCRIPTION

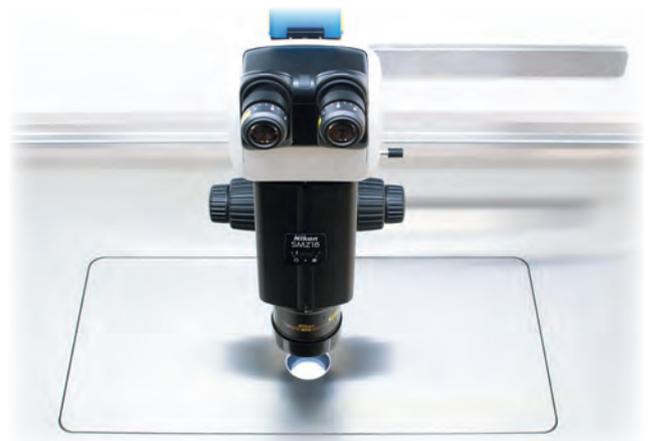
Special laminar flow cabinet for work in tissue centers e.g. IVF, tissue banks, etc. The set is made up of components, which are tested in practice and together ensure optimal laboratory work with cells and tissues. The laminar flow cabinet provides excellent protection against particulate and bacterial contamination of the processed tissues and cells.



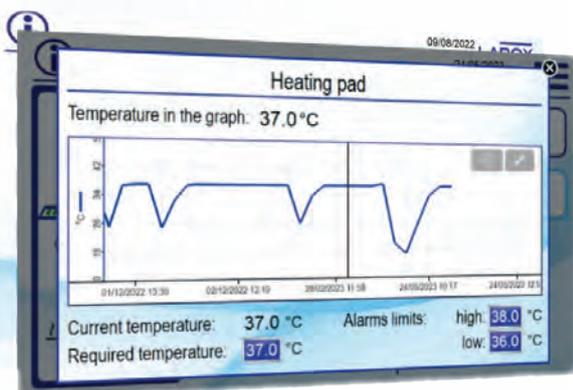
- Cleanliness class A acc. EC GMP
- Low vibration level provides ideal conditions for working with a microscope
- Intuitive and clear touchscreen control
- Premium components and material
- Possibility to work in 24/7 mode
- Automatic control by the most advanced system CR2000
- Unique features: remote control, audit trail, monitoring, etc.
- DNA friendly LED light in the working space

HEATING PAD

- Heating pad with heating glass with superior and precise PID regulation
- Reaching of the desired temperature within 40 min
- Overheating protection
- Temperature monitoring including data export
- Easy to change of the desired temperature during the outgoing work
- Common setting of the heating pad and heating glass



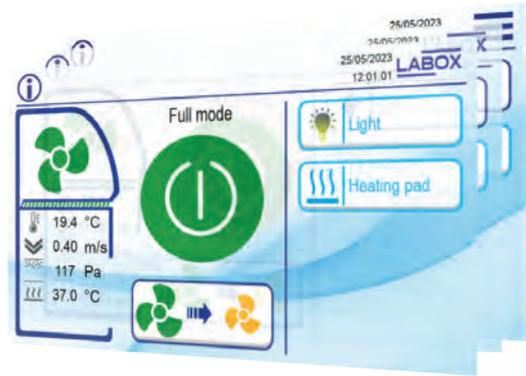
- Excellent stability and homogeneity
- Surface made from quality stainless steel with dimensions 600X290 mm
- Professional and full integration of selected microscopes
- Heating pad fully controlled by CR2000
- Alarms sent by e-mail and push notifications to mobile phone



CONTROL SYSTEM CR2000

State of art intelligent system controlled via touch screen or remotely from a PC or mobile phone. Specially developed for the control of FBB and MBB laminar flow cabinets.

- Intuitive and user friendly
- Audit trail, change records
- Integrated continuous monitoring
- Intime notification for HEPA filter replecament
- Advanced timers including CTM mode
- Control supervision center connection
- Regular FW updates
- User access management



More information you can find in catalogue sheet - „**Control system CR2000**“.

OPTIONAL ACCESSORIES



- Adjustable intensity of light condition
- Professional integration of laboratory technology: microscopes, CO2 incubators, LCD screens, cameras, heating pads, PC, etc.
- Brackets, shelves, hangers, holders, organizers
- Higher filtration level from HEPA to ULPA
- Front panel color modifications to match the laboratory color standard

The accessories offer can be found in separate catalogue sheet - „**Accessories**“.



TECHNICAL PARAMETERS

Cleanliness acc. US FS 209 E	100 (M 3,5)
Cleanliness acc. EN ISO 14644	ISO 5
Quality class acc. EU GMP	A
Electrical voltage [V/Hz]	230V / 50Hz
Airflow velocity in working area	0.40 ± 0.05 full mode, 0.20 ± 0.05 stand-by mode
Noise level at operation workstation (dB(A)) in full mode	max. 53
Noise level at operation workstation (dB(A)) in reduce mode	max. 49
Temperature range of heating pad and heating glass*	30 - 40°C

*if a heating pad is installed, the temperature can be set by user in a range 30 – 41 °C, starting 5°C above ambient temp

Smart control system CR2000 features: working mode selection; user selection with various access level; remote control via Android, iOS, Windows; advanced timer; remote service support, light level intensity, main HEPA filters pressure level, audit trail, validation and service interval warning, alarm system according to the GMP requirement including email notification and push notification (in case the workstation is connected to the internet). In time notification with smart prediction for filter replacement. Complete communication in English, Spanish, Czech language. Others languages can be added on demand.



STANDARD DIMENSIONS

	External dimensions (mm)			Working area (mm)			power input (W)
	width	height	depth	width	height	depth	
FBB - 12 IVF	1180	2070	690	1155	875	610	330
FBB - 16 IVF	1616	2070	690	1590	875	610	450
FBB - 20 IVF	2000	2070	690	1970	875	610	650
FBB - 24 IVF	2400	2070	690	2370	875	610	660

The height of worktop is 750 mm. The height can be adjusted according to the request when ordering.

Note: If you are looking for a laminar flow cabinet for working with cells using micromanipulators, e.c. ISCI/ IMSI in IVF, where vibrations need to be kept to a minimum, look at laminar flow cabinet FBB-R. For operation that require protection of both material and operator, please consider purchasing the microbiological safety cabinet MBB-IVF.

v. 05/2023