LABOX

FBB-IVF

PROFESSIONAL IVF WORKSTATION III. GEN.



The Future

is in our hands



GENERAL PRODUCT PRESENTATION

LAMINAR AIRFLOW WORKSTATION

PROFESSIONAL LINE



LAMINAR AIRFLOW
WORKSTATION FOR IVF











key benefits and

advantages

- + Class A acc. to the GMP, ver. 2022/08
- Powerfull, quiet and energy-efficient
- → State of the art SMART control system CR2000
- made of premium materials and components (24/7)
- + Continuous monitoring of temperature, pressure drop and airspeed
- + CTM (Central timer module) most advanced timer
- + Great ergonomic low vibration, low noise, effective workspace
- Full remote control and remote service management
- → Audit trail registration of changes, alarms, settings, etc.
- → Lifetime service guarantee
- Using a light source from a microscope manufacturer
 maximum utilization of all features of new microscopes
- + Ergonomic space under the worktop
 - = comfortable and spacefull legroom

Professional laminar airflow workstations







- ✓ LED light with high light intensity dimmable 0-100%
- √ "C" Stand
- √ Solid, stable table with anti-vibration foots
- ✓ CR2000 smart control unit state-of-the-art control system
- √ Full remote control and service management
- √ Continuous monitoring of temperature, HEPA filter pressure drop and airspeed
- √ CTM (Central timer module) most advanced timer
- √ Auditrail
- √ High-efficiency filtration class H14, 99,995% efficiency
- √ Control by the touch panel as well as from Android or iOS smartphones
- √ Instant email and push notification
- √ USB socket
- √ cGMP compliant
- √ Cleanliness class A (GxP, Eudralex)
- √ Class 5 (ISO 14644)

standard features

working desk

- → Smooth stainless steel with matte finish (glare-resistant)
- + Easy to clean and resistant to the cleaning and decontamination solutions
- + Superb integration of heat plate, microscope and others equipment, fully embedded- single level working space





LED light

- → High level of luminosity 1100 lx
- + Top quality Made in Germany, long life
- → Cells and DNA friedly light
- → Dimmable (0-100%)

CR2000

smart control unit

- + State-of-the-art, fully electronic control of all functions of the workstation with intuitive operation
- LCD touch screen
- Complete information of all main parameters
- → Notification and alarms by email
- Remote control (Android, iOS) control the workstation from your office or home
- + Continuous monitoring (temperature, pressure drop, airflow speed)
- + Complete communication in Czech, English, Spanish. Others languages can be easily added
- + Remote service management, remote user training

- The CTM Advanced central timer module for automatic operation of the Workstation and main accessories, including individual control of heating surfaces, ionizing bar, etc.
- → Scalable access rights (user, supervisor, service, etc.)
- In time notification for the requirement of filter replacement, qualification, maintenance and others
- + Audit trail registration of changes
- + PID control for temperature control ensure accurate and fast heating of the heating surfaces. Heating surface is ready for operation only in 40 minutes.
- + Firmware is continuously developing bringing updates and new features



Ultimate Remote control

- Most advanced remote control system for the workstation – secure and user friendly
- Same screen like on the workstation display
- Maximum time management effectivity switch on the workstation and heating surface prior entering to the lab. No more waiting for stabilization
- + Available in Android, iOS, or Windows
- Remote service management
- FW update be uptodate, get a new feature, stay in line with current regulation



Laminar airflow workstations FBB, MBB powered by CR2000 SMART Control System

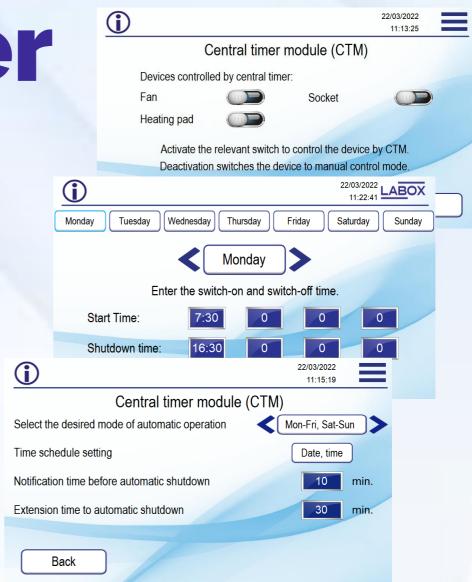


Central Timer Module

(CTM)

it is **state of the art advanced timer**. User fully manages what has to be operate in the same time. Not only Workstation (fan) but also accessories (heating surface, electrical socket, etc).

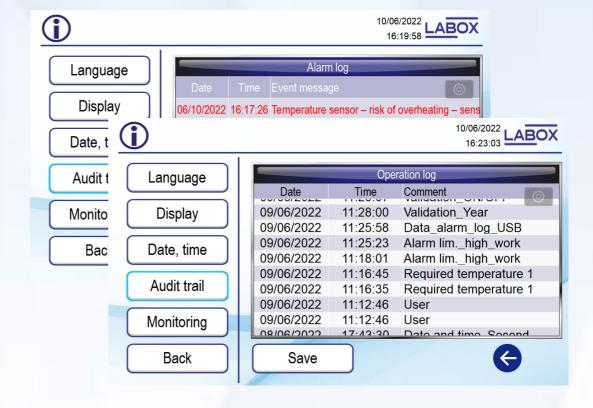
- → save operator time
- + ultimate solution in automatic operation
- → up to 4 time slots for each day
- early notification before the auto shutdown



Audit Trail

registration of parameters changes, alarms and events

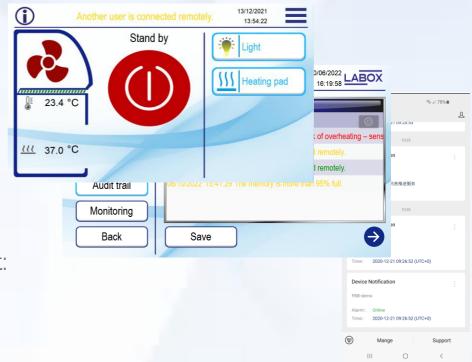
- + change of the temperature setup, sensors or fan failure, low speed, qualification period, HEPA filter replacement recommendation, remote connections, etc.
- + professional, including the export to email or USB



Advanced Notification system

Full information about any alarm and notification

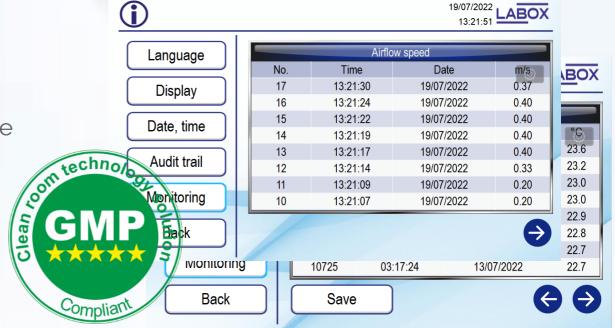
- + Acustical and visual notification with all info
- → Voice notification for main information
- → Push notification (Android/iOS)
- → For main alarms there are two alarm levels alert / action limits (according to GMP)
 e.g. HEPA filter clogging: alert limit in 3 up 6 month the HEPA should be replaced, action limit: HEPA filter should be replaced immediately



Continuous monitoring

CR2000 new functions (for new and existing workstations)

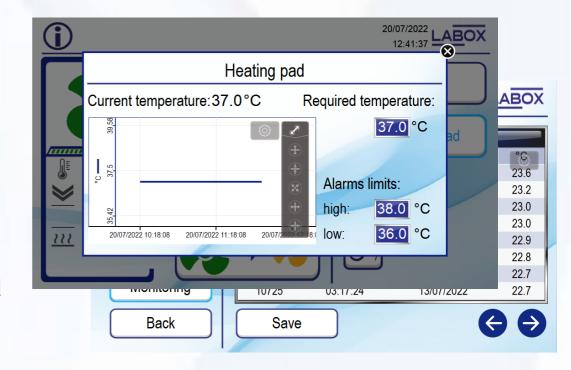
- → Temperature of the heating surface
- Temperature of working space, pressure drop on main filter, airflow velocity
- + Export data to e-mail, or USB
- → Data saving every 60 minutes
- Useful for quality assurance and troubleshooting



Advanced control of heating surface

The heating surfaces get a new great feature. Easy way how to modify the required temperature even during operation.

- + Possibility to modify easely required temp if e.g. different laboratory glass is used during the same shift
- + Accessible from main page
- Enhanced data visualisation (graph)
- Temp and alarm modification are recorded in audittrail
- → This solution is saving the operator time



EasyShare video streaming

- + USB camera can be connected to CR2000
- + Compatible with most type of WEB cameras (also standard pc webcam)
- + Camera can be connected to the USB port on front panel (standard delivery), or USB port can be installed inside the working space (optional)
- → Great for working space surveillance
- → WEB Streaming (RTSP protocol) into the local network (e.g. for training students, for clients, witness, etc.)
- + Beside the USB camera, the stream from IP camera can be connected to CR2000



Surveillance monitoring center



Complete up-to-date information and remote access to all workstations controlled by SMART CR2000 control.

MODBUS protocol

- → Most popular, secure, industrial protocol, used for trasmitting information between electronic devices
- → Connection to **BMS**
- Connection to EMS
- Easy integration in current advanced med lab systems
- + Communication with SQL, including the TLS/SSL encryption
- + Enabling remote control of the workstation by BMS system



Optional accessories

- → Stand with wheels
- + Electrical adjustable height stand (600-1100mm)
- → Higher level of filtration efficiency -ULPA with 99.995% efficiency
- → Integration of NIKON microscopes (stands P-DSL32 LED or P-DFS32 Fiber Diascopic Illumination), OLYMPUS ZX10, or others if agreed
- → Integration of incubator Labotect C16, or Selutec TECO 10
- The front panel can be made in various colours, to match the laboratory's colour standard.

- → Heating surface integration
- → Full LCD panel integration
- Shelf with electrical HUB under the working desk
- → Ionizing bar for the elimination of space static electricity
- → Electrical sockets, USB/ethernet/HDMI sockets, bushings, etc
- + Holders, shelfs, etc.
- + UPS

our clients

Reprofit International, MMI Czech, Sanatorium Helios
IVF Clinic, Gest IVF, Gennet, FertilityPort Prague, Pronatal,
Prague Fertility Centre, FutureLife, NEXT laboratories, EUROPE IVF International,
Ferticare (member of IVI clinics - GeneralLife)
IVF Zentren Prof. Zech, IVF Clinic, IVF Cube, GYN - FIV,
ISCARE I.V.F., UNICA, Sanus, GYN - FIV, Dr. Reich Vietnam,
GeneralLife clinics, INAFER Tecnologia y servicios S.L., CIRH FIV Lleida,
Marbella International Hospital SA,
Centro médico-quirúrgico hla ramón y cajal, FIV Valencia
EMB Castilla, Grupo Vistahermosa, IGMR Drs. Ordás Y Palomo
Przychodnia Lekarska"nOvum,, LTD Firm "Ecomed,
AL AIN Fertility Center (UAE), Hong Ngoc IVF Center

And other IVF Centers in Czech republic, Europe, Asia

LABOX WORKSTATIONS OPERATES WORLDWIDE































LABOX professional workstations

- + recessed LCD panel 19"
- + CO2 incubator Labotect recessed in the rear working space wall
- + heating surfaces with Nikon PSL32 stativ and Nikon 1270 microscope
- + Multipurpose shelf under desk with electrical HUB
- → Blue color front panel



- → recessed All-in-one LCD panel 19"
- + two CO2 incubators Selutec recessed in the rear working space wall
- + two heating surfaces with Nikon CD-S stativ



- → recessed All-in-one LCD panel 19"
- + CO2 incubators Selutec recessed in the rear working space wall
- → Antivibration platform passive version LFM for Eppendorf-Nikon micromanipulator
- → heating surface with Nikon PDSL32 stativ
- + electrical height adjustable stand EHAS 600-110 cm
- + Front panel in blue
- + multipurpose shelf with electric HUB
- → magnetic bar



- + recessed LCD panel 19"
- + electrical height adjustable standEHAS 600-110 cm
- → multipurpose shelf with electric HUB
- + magnetic bar







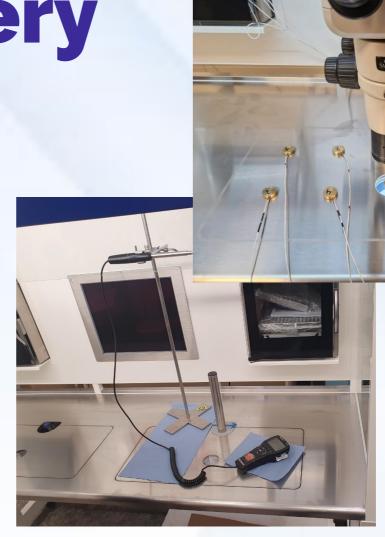
Huge IVF lab in Prague

- → nine workstations
- + 2x ISCI, 1x andrology, 6x embrology
- + 2x antivibration tables
- → monitoring center for CR2000

Standard tests before delivery

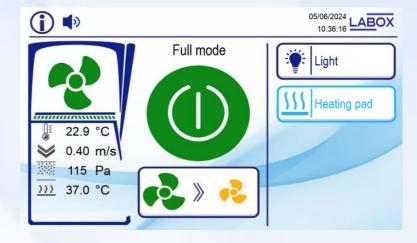
All workstations are setup and tested

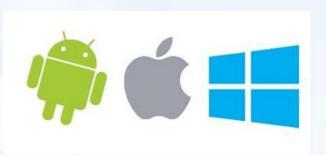
- → Mechanical and visual tests
- → Speed Sensor calibration, check of the initial pressure drop of the HEPA filter
- → HEPA filter challenge test
- + Airborne particle count
- + Airflow velocity, uniformity test
- + Temperature mapping of the heating surface (if installed)



Innovation in progress

- → One electronic baseline for all LFC cabinets (FBB, MBB)
- → New accessories
- → Voice processor (status and alarms Messages) EN, ES, CZ (others languages on demand)
- → IFTTT automation & workflow









LAMINAR AIRFLOW WORKSTATION

PROFESSIONAL LINE

- The most efficient solution for working with micro-manipulators in a laminar airflow area with cleanliness class A environment
- The laminar working area is physically separated from the working desk
- → Ultimate anti-vibration solution
- + Advanced control system CR2000



ISCI/IMSI MICROMANIPULATION FRIENDLY LFC SYSTEM

FBB-R

Solution on the photo is conposed by an FBB-R laminar flow cabinet and a LFM75 (1st generation) working table with an integrated anti-vibration desk



Cells and Tissues friendly technology



low noise







LAMINAR AIRFLOW WORKSTATION

PROFESSIONAL LINE

- + Advanced control system CR2000
- + Full microscope and heating surface integration
- → Motorized front window
- Low vibration level
- → Top level security features
- + Full remote control and remote service management



MICROBIOLOGICAL SAFETY CABINET EN12469 class II.











LAMINAR AIRFLOW WORKSTATION

PROFESSIONAL LINE

- → Advanced control system CR2000
- + Full microscope and heating surface integration
- → CTM advanced central timer
- Full remote control and remote service management
- + Real low noise operation
- → Low operation costs



LAMINAR AIRFLOW
WORKSTATION FOR IVF











WORKSTATION PROFESSIONAL LINE

- + **Ultimate antivibration system** designed mainly for IVF micro-manipulation
- + Comfortable and ergonomic design
- + Easy to upgrade from passive to active solution
- → Maintenance free solution
- Available also with electric state-of the-art height adjustable stand



LFM









- + CUSTOMER ORIENTATION
- + TREND TRACKING AND TRACKING OF LEGISLATIVE REQUIREMENTS
- + STRONG RELATIONSHIP WITH FINAL USERS
- + EXPERIENCED TECHNICAL TEAM
- → LIFETIME SERVICE SUPPORT
- + PROFESSIONAL REMOTE SERVICE
- + KNOWLEDGE AND EXPERIENCE SINCE 1993

your
specialist
in IVF
technology







