LAMSYSTEMS

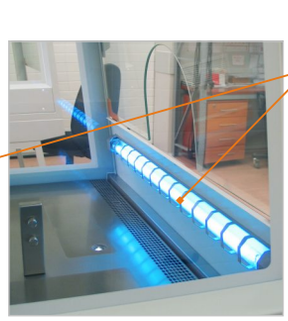
IVF WORKSTATIONS

Class II Type A2

OPERATOR, ENVIRONMENT,
PRODUCT PROTECTION

Workstations (cabinets) are specially designed for laboratories of In Vitro Fertilization (IVF).

High pure air environment in the cabinet chamber provides solid protection of the technological process and minimizes the risk of microbial contamination when working with oocytes and embryos and doing research in Assisted Reproductive Technologies (ART).



Pullout
UV unit

Curtain for
microscope

Remote light
control

Integrated light
source with
heated glass

Monolith tabletop can be lifted
with gas-springs for convenience
of the disinfection process

Smooth monolith tabletop of
stainless steel without cavities
in the areas of heated tabletop

Cabinet control is exercised with the help of the color touchscreen:
– Selection and adjustment of the airflow settings (setting up, operating, economy, purity maintaining modes)
– Setting of the automatic start of the cabinet (guarantees readiness of the cabinet for operation by the beginning of the workday)
– Setting of the tabletop heating temperature (in configurations with two heating surfaces, temperature is set up separately for each)

Cabinets are supplied with HEPA filters H14 complied to the European Standard EN 1882-1 and providing air cleanliness with efficiency 99,995% for particles sized 0,3 um.

LED lights specter in the working area excludes UV component.

System for premixed gas supply and moisturization.

Low level of the acoustic noise and minimal vibration due to radial noise free EC fans create comfortable conditions for a longtime work of the embryologist.

High precision optical sensors control location of the moving and removable parts (front sash, pullout UV unit) influencing cabinet's protective properties.

Cabinet can also be supplied with charcoal filter additionally.

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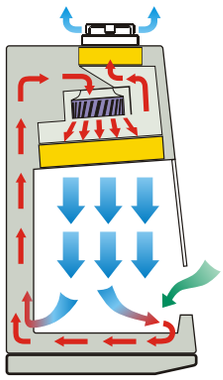
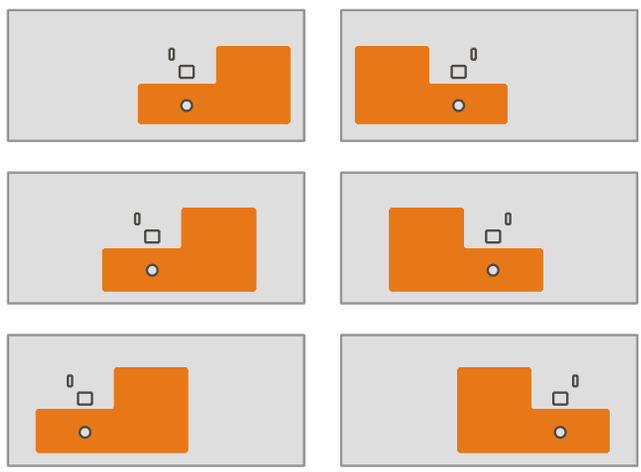
AIR FLOW SCHEME



contaminated air
room air
clean (filtered) air

VARIATIONS OF LOCATION AND ARRANGEMENT OF HEATED SURFACES



CHARACTERISTICS

Air cleanliness class in the working chamber of the cabinet for suspended particles (aerosol) content according to ISO 14644-1-2002	5 ISO
Class of the cabinet according to EN 12469 -2010, NSF/ANSI 49-2009	II
Type of the cabinet according to NSF/ANSI 49-2009	A2
Class of the HEPA filters installed in the cabinet according to EN 1822 -1-2010	H14
HEPA filter efficiency for particles sized 0.3 um according to EN 1822 -1-2010, %	99,995
Average downflow velocity in the working chamber, m/s	0,28
Illuminance level in the working zone, Lux, not less than	1000
Air recirculation rate in the cabinet, %	70
Operating modes: Setting up - purging Operating mode Purity maintaining mode Economy mode	 Maximum fan power for 1 min Specified working velocity of the airflow Fan in economy mode, lighting and other functions are on 50% fan capacity
Initiation of the operating mode	can be set up with timer

CHARACTERISTICS OF HEATED SURFACES

Temperature regulation range, °C	room t° to + 45
Temperature regulation accuracy, °C	±0,2

MAIN PARAMETERS AND DIMENSIONS

	1200 mm	1500 mm
Dimensions of the cabinet assembled with the stand (WxDxH), mm	1200x770x2147	1500x770x2150
Dimensions of the working chamber (WxDxH), mm	1105x610x750	1405x610x750
Input power of the cabinet, W, not more than (exclusively of the load on the built-in outlets)	390	490
Maximum acceptable load on the built-in outlets, W, not more than	1000	1000
Power of the UV lamp, W	30	30

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The manufacturer reserves the right to change specifications and designs in further technical development of the equipment