



LAMSYS

IVE WORKSTATIONS

Specialty designed for Assisted Reproductive Technology

IVF

WORKSTATIONS ARE SPECIALLY DESIGNED FOR LABORATORIES OF IN VITRO FERTILIZATION.

Highly pure air environment in the cabinet chamber provides solid protection of the technological process and minimizes the risk of contamination when working with oocytes and embryos and doing research in ART.





FEATURES

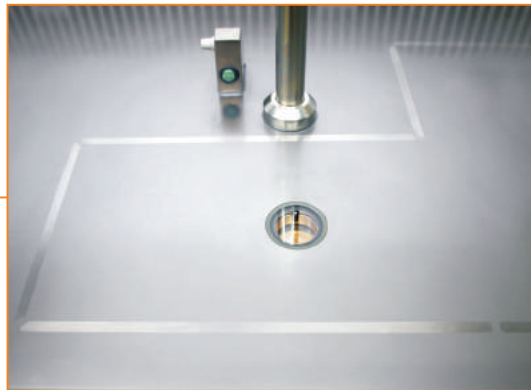
CLEAN AIRFLOW

- Consistent, turbulence free airflow with HEPA H14 filtration according to the European Standard EN 1882-1 provides air cleanliness efficiency of 99,995% for particles sized 0,3 µm
- Carbon filter as part of the standard configuration provides air purification from VOC.
- Radial low-noise EC fans decrease noise and vibration level for comfortable working conditions



COLOUR TOUCHSCREEN

- Selection and adjustment of the airflow settings (pre-operation, operation, economy, clean maintenance modes)
- Automatic switch-on time setting for the cabinet's pre-readiness to work on the specified days of the week
- Tabletop heating temperature setting (in case of two heating zones, the temperature is individually set for each one)



WORKING AREA

- L-shaped heated zone/-s
- Different location of heated zones
- Smooth single-piece tabletop made of stainless steel has a visually marked heating zone to ensure the samples are always warm



INDEPENDENT HEATED ZONES

Each workplace is featured with 7 independent heated zones with individual sensors and heating elements that ensure accurate temperature adjustment as well as fast and even heating



LIGHT AND HEATED OBJECT PLATE

- An integrated light with heated object plate is featured with independent temperature adjustment
- Light angle regulation
- Lighting dimmer is located on the tabletop
- LED light spectrum in the work chamber excludes UV radiation and its harmful impact

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WITH LAMINAR AIRFLOW



PRODUCT PROTECTION

Highly pure air environment is created in the work chamber to protect valuable samples during ART.

- All brands of microscopes can be installed
- Additional options: gas supply and humidification system, 21.5" monitor, antivibration table



Built-in system for premixed gas supply and humidification



Cut-out for the microscope (shape, size and location as per customer's requirements)

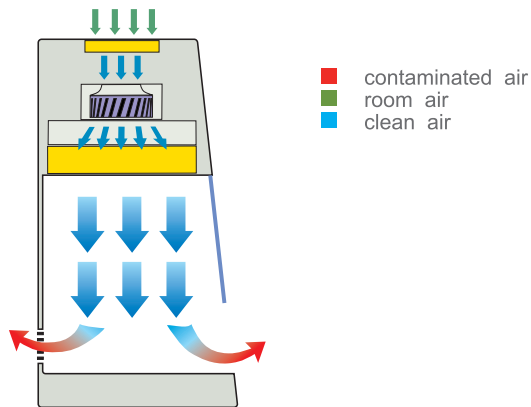
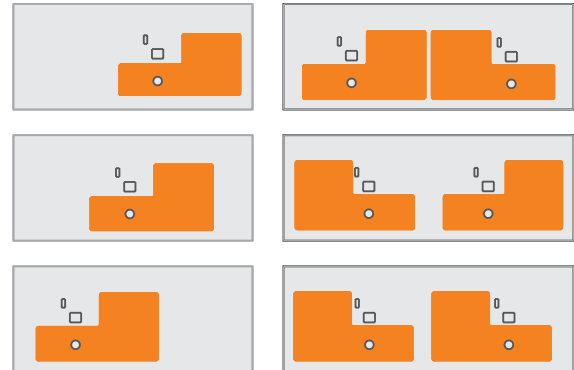


Removable armrest



Light angle adjustment



AIR FLOW SCHEME

VARIATIONS OF HEATED SURFACE LOCATION AND ARRANGEMENT


Mirrored positions are also available.

TECHNICAL SPECIFICATION

Air cleanliness class in the work chamber for suspended particle (aerosol) concentration according to ISO 14644-1	Class 5
Class of the HEPA filters according to EN 1822 -1	H14
Primary efficiency of HEPA filters for particles sized 0.3 μm according to EN 1822 -1, %	99,995
Average downflow velocity in the work chamber in operating mode / 50% mode, m/s	0,40±0,03 / 0,25±0,03
Work zone illumination, lx, not less than	2000
Modes of Operation:	
Set-up - blowdown	Maximum fan rotation for 1 min
Operating mode.....	Preset operating airflow velocity
Clean maintenance mode.....	Fan in economy mode, lighting and other functions are off
Economy mode.....	50% fan capacity
Warm-up by specified time	preset with timer

HEATED SURFACES

Preset temperature range, °C	+35 to +45
Accuracy of preset temperature maintenance, °C	±0,3

MAIN PARAMETERS AND DIMENSIONS

Article	1E-D.006-12.0	1E-D.006-15.0	1E-D.006-18.0
Dimensions of the cabinet assembled with the stand (WxDxH), mm	1200x760x1915	1500x760x1870	1800x760x1870
Dimensions of the work chamber (WxDxH), mm	1130x630x660	1425x630x640	1725x630x640
Input power of the cabinet, W, not more than (exclusively of the load on the built-in outlets)	980	980	1780
Maximum acceptable load on the built-in outlets, W, not more than	1000	1000	1000

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CLASS II TYPE A2



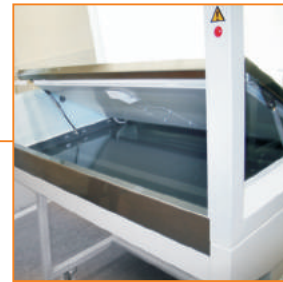
OPERATOR, ENVIRONMENT,
PRODUCT PROTECTION

Highly pure air environment is created in the work chamber to protect valuable samples, environment, and operator during ART.

- All brands of microscopes can be installed
- Curtain for microscope
- Single-piece tabletop can be equipped with gas-springs for convenient disinfection
- Armrest
- Additional options: gas supply and humidification system, 21.5" monitor



Position of the front sash and the UV unit affecting the protective properties of the device is controlled by high-precision optical sensors



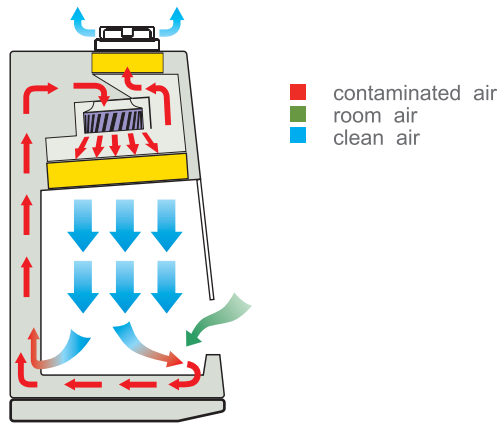
Monolith tabletop can be lifted with gas-springs for convenience of the disinfection process



A pullout UV lamp is located outside of the work chamber and does not impact the airflows during operation



Additional options: technical and inflammable gas taps, vacuum tap

AIR FLOW SCHEME

VARIATIONS OF HEATED SURFACE LOCATION AND ARRANGEMENT


TECHNICAL SPECIFICATION

Air cleanliness class in the work chamber for suspended particle (aerosol) concentration according to ISO 14644-1 Class 5

Class of the cabinet according to EN 12469, NSF/ANSI 49 II

Type of the cabinet according to NSF/ANSI 49 A2

Class of the HEPA filters according to EN 1822-1 H14

Primary efficiency of HEPA filters for particles sized 0.3 μm according to EN 1822-1, % 99,995

Average downflow velocity in the work chamber in operating mode / 50% mode, m/s 0,28±0,02 / 0,20±0,02

Work zone illumination, lx, not less than 2000

Air recirculation, % 70

Modes of Operation:

Set-up - blowdown Maximum fan rotation for 1 min

Operating mode Specified operating airflow velocity

Clean maintenance mode Fan in economy mode, lighting and other functions are off

Economy mode 50% fan capacity

Warm-up by specified time preset with timer

HEATED SURFACES

Preset temperature range, °C +35 to +45

Accuracy of preset temperature maintenance, °C ±0,3

MAIN PARAMETERS AND DIMENSIONS

Article	1E-B.006-09.0	1E-B.006-12.0	1E-B.006-15.0
Dimensions of the cabinet assembled with the stand (WxDxH), mm	1000x770x2095	1200x770x2095	1500x770x2095
Dimensions of the work chamber (WxDxH), mm	905x610x750	1105x610x750	1405x610x750
Input power of the cabinet, W, not more than (exclusively of the load on the built-in outlets)	900	1150	1150
Maximum acceptable load on the built-in outlets, W, not more than	1000	1000	1000
Power of the UV lamp, W	25	30	30

LAMSYSTEMS is a **private** Russian holding founded in 2000.
It is the largest manufacturer of high-tech equipment for personnel, product, and environment protection from biologically hazardous agents.

Company supports **full cycle of production** including design, manufacturing, sales, and maintenance services of specialized equipment such as microbiological safety cabinets, laminar flow benches, fume hoods, clean zones, etc. All produced equipment has received **quality certificates**.



LAMSYSTEMS

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