

IVFtech
For the next generation



Welcome to the IVFtech Family

Home of customized, quality products since 1998 IVFtech's mission has been to supply and secure the best, customized solutions for your IVF laboratory and providing a secure atmosphere with reliable temperature, humidity, and CO2 equilibrium. To give our customers the best service and quality in everything we do. For the next generation.

We wish to create the best possible reliable and quality products. Our company supports this vision by offering a wide range of well-designed, customized products, with the finest first-rate worldwide service.

We want to provide impeccable and trustworthy products and be recognized as a company of honesty and customer commitment. Be the marked leader of customized products, while using our knowledge to inspire and implement solutions for the future of IVF, today.

We work hard every day to make IVFtech the world's most respected IVF brand, by leading the way for high quality customized products, with beautiful design and integrity.

State-of-the-art production facilities, skilled and experienced employees, and standardized workflows ensure the superior quality of IVFtech. Every cabinet, table or any of the products we deliver to our customers fulfill the highest functions and reliability requirements of temperature, humidity, and CO2 equilibrium, and everything can be customized to meet your specific needs.

The use of high-end materials, proven production processes incorporating continuous manufacturing and final tests guarantee a consistently high-quality level. Our streamlined management system with clearly defined workflows, rigorous quality control and the constant challenge to improve our processes are one of the key success factors for our customers' satisfaction.

The coalition of customized quality, reliability and innovation results in tangible benefits for our customers.

Every customer, every product, every time.

CABINETS

- IVFtech Sterile
- IVFtech Class II
- IVFtech DS Sterile
- IVFtech Unica
- IVFtechLight

APPLIANCES FOR CABINETS

- Appliances for backwall in Sterile cabinets
- Appliances for tabletop in Sterile cabinets
- Appliances for Class II, DS and Unica

ACCESSORIES AND EQUIPMENT

- Warming blocks
- Hot plate
- Tube warmer
- Incubator
- Gas mixer

TABLES

- Anti-vibration table
- Z-table
- I-table
- IVFtech heated table

IVFtech STERILE CABINET

IVFtech Sterile cabinets are designed to protect the samples with a constant laminar vertical flow of clean air in the entire working area. IVFtech Sterile quality cabinets are made to meet the specific requirements of IVF Laboratories all over the world.

We have developed our expertise over 20-years and are able to provide industry-leading uniformly distributed heated surface on tabletop.

All major brands of microscopes can be integrated.

The low speed of the fan ensures longer life of the HEPA filters and fan, and saves energy while creating less turbulence around the microscope.

The Laminator and diffuser ensures uniform airflow, and allows for more balanced air through lower speed.

The IVFtech Sterile cabinets can be customized with many different options, and provides a flexible back bone of any IVF laboratory. The cabinets come in four sizes, with or without height adjustable stands.

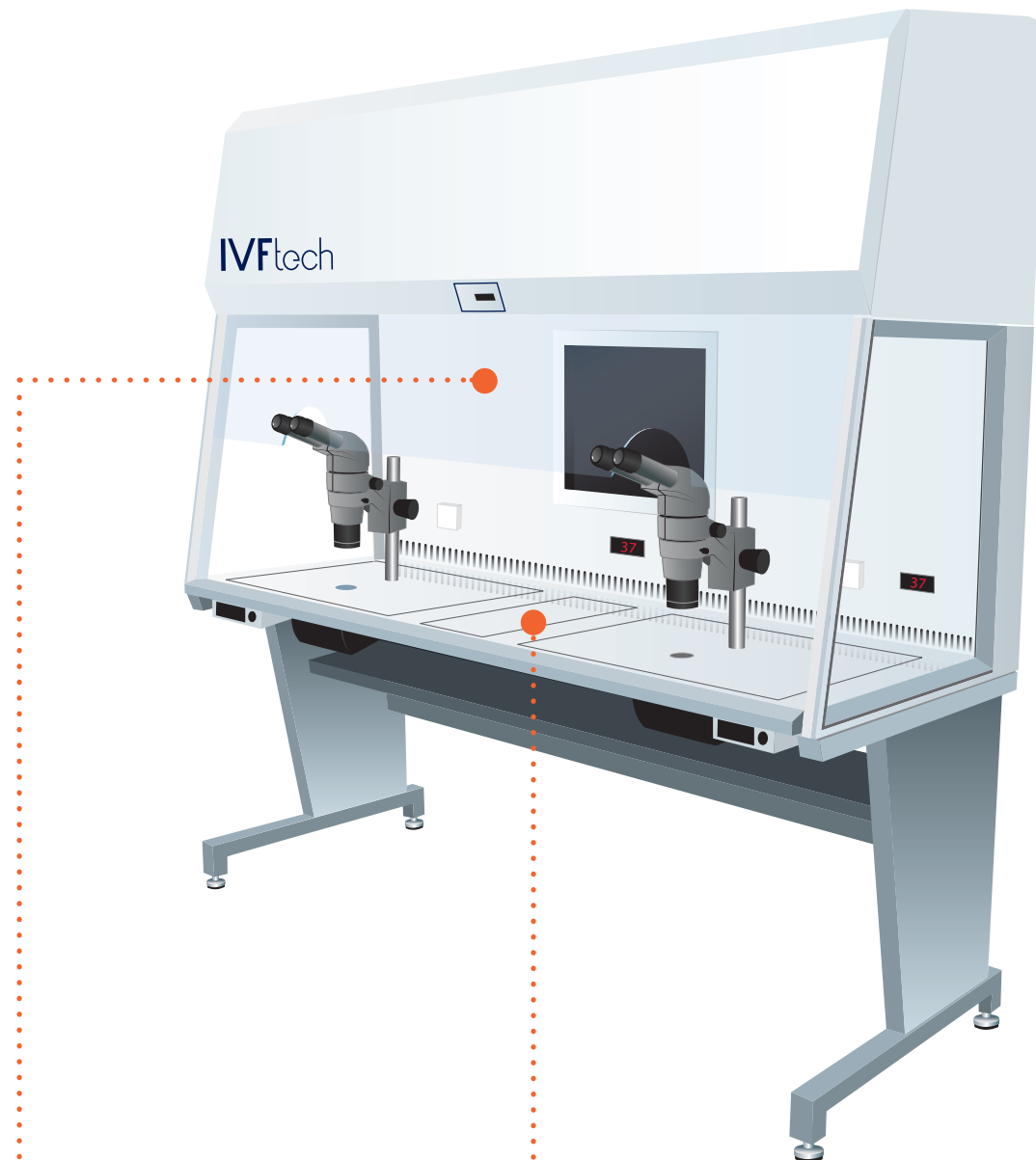
HiMacs or Stainless steel:

The Hi-Macs® table tops provide an excellent alternative to Stainless Steel. The Hi-Macs® surface is stain resistant and easy to clean. Hi-Macs® is highly scratch resistant compared to stainless steel. Furthermore the Hi-Macs® surface can be refurbished and repolished if needed. It is easy to see the writing on the dish when working on the Hi-Macs® surface.



Advantages:

- User friendly interface
- Easy to service
- Easy to clean
- Slope front for ergonomic work
- Fits all major microscope brands
- More work areas in less space
- Effective work flow
- Adjustable fan speed
- Adjustable light intensity
- Built in timer
- Low noise level
- High degree of configurability
- Option for electrical elevation stand
- Hi-Macs or stainless steel
- 90, 120, 150, 180, 210, 240cm



Options for
backwall
see page 14-15

Options for
table top
see page 16-17

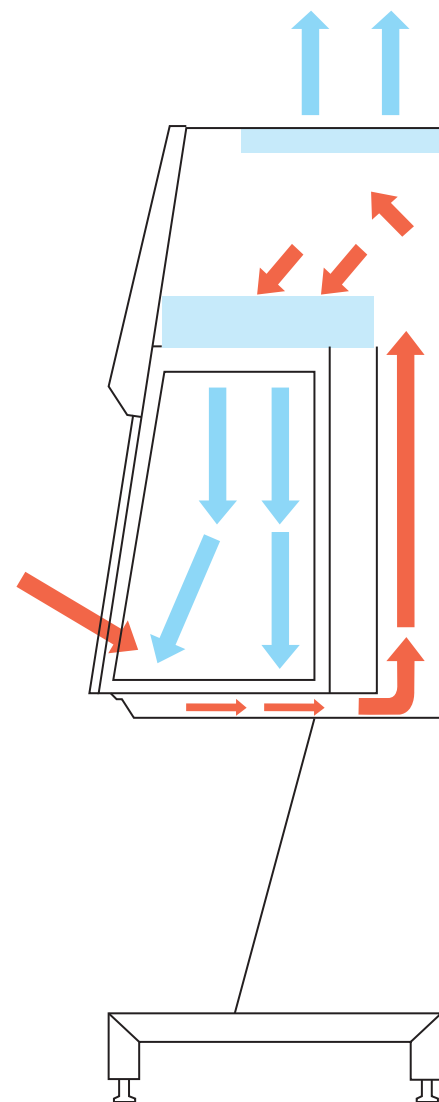
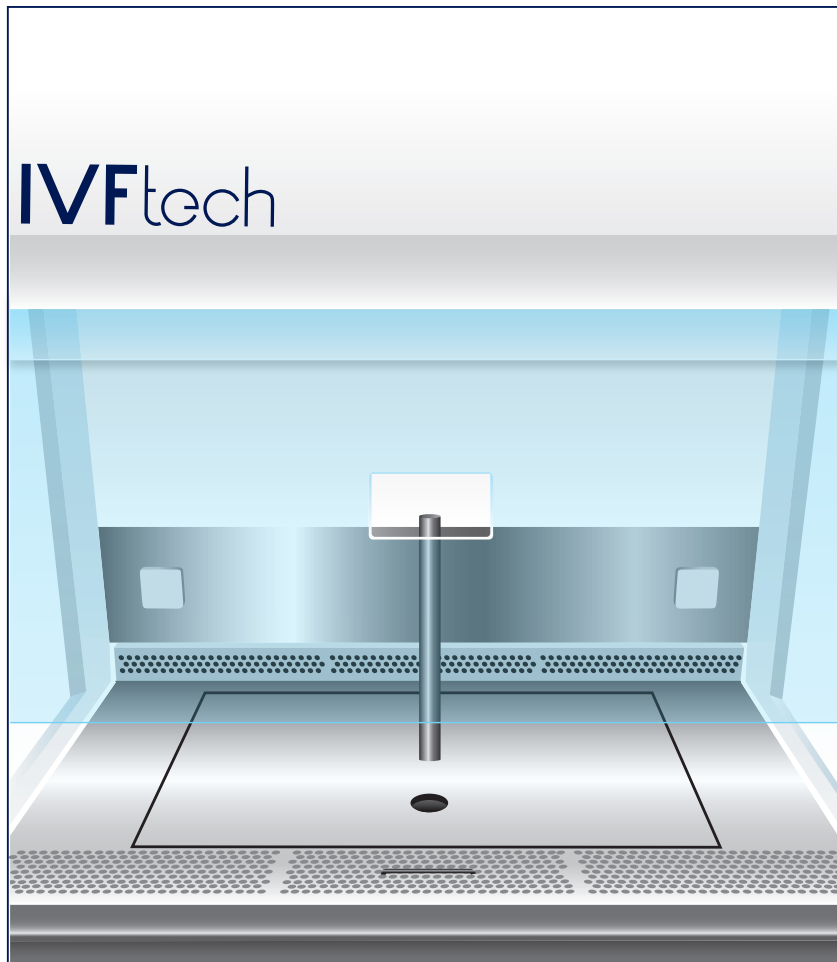
CABINETS

IVFtech CLASS II

IVFtech Class II cabinets are designed to protect both the samples and the people working with the samples through recirculating air through the filter without leaving the cabinet. They are custom made to your specifications and suitable for all IVF laboratory procedures such as sperm collection, embryo scoring and transfer preparation. Cabinets are available in 4 sizes: 90, 120, 150 and 180cm, with many options to customize your cabinet further. With control board with timer to switch on/off the fan and on/off the heated tabletop. All brands of microscope can be installed, choose between oculars through the front window or a secondary window inside the cabinet, which allows the front window to be closed.

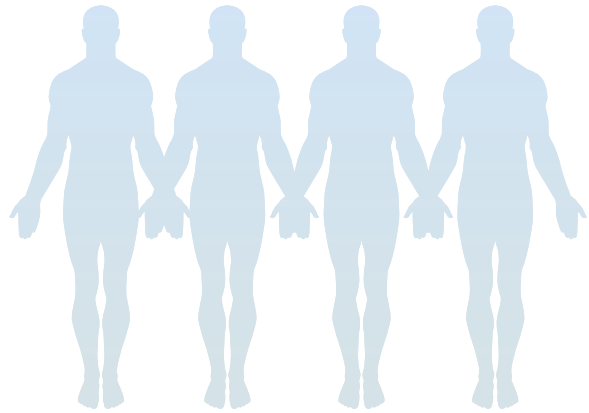
Advantages:

- User friendly interface
- Easy to service
- Easy to clean
- Slope front for ergonomic work
- Motorized window
- Split window option for ocular
- Fits all major microscope brands
- More work areas in less space
- Effective work flow
- Adjustable fan speed
- Adjustable light intensity
- Built in timer
- Low noise level
- High degree of configurability
- Option for electrical elevation stand
- Stainless steel
- 90, 120, 150, 180cm

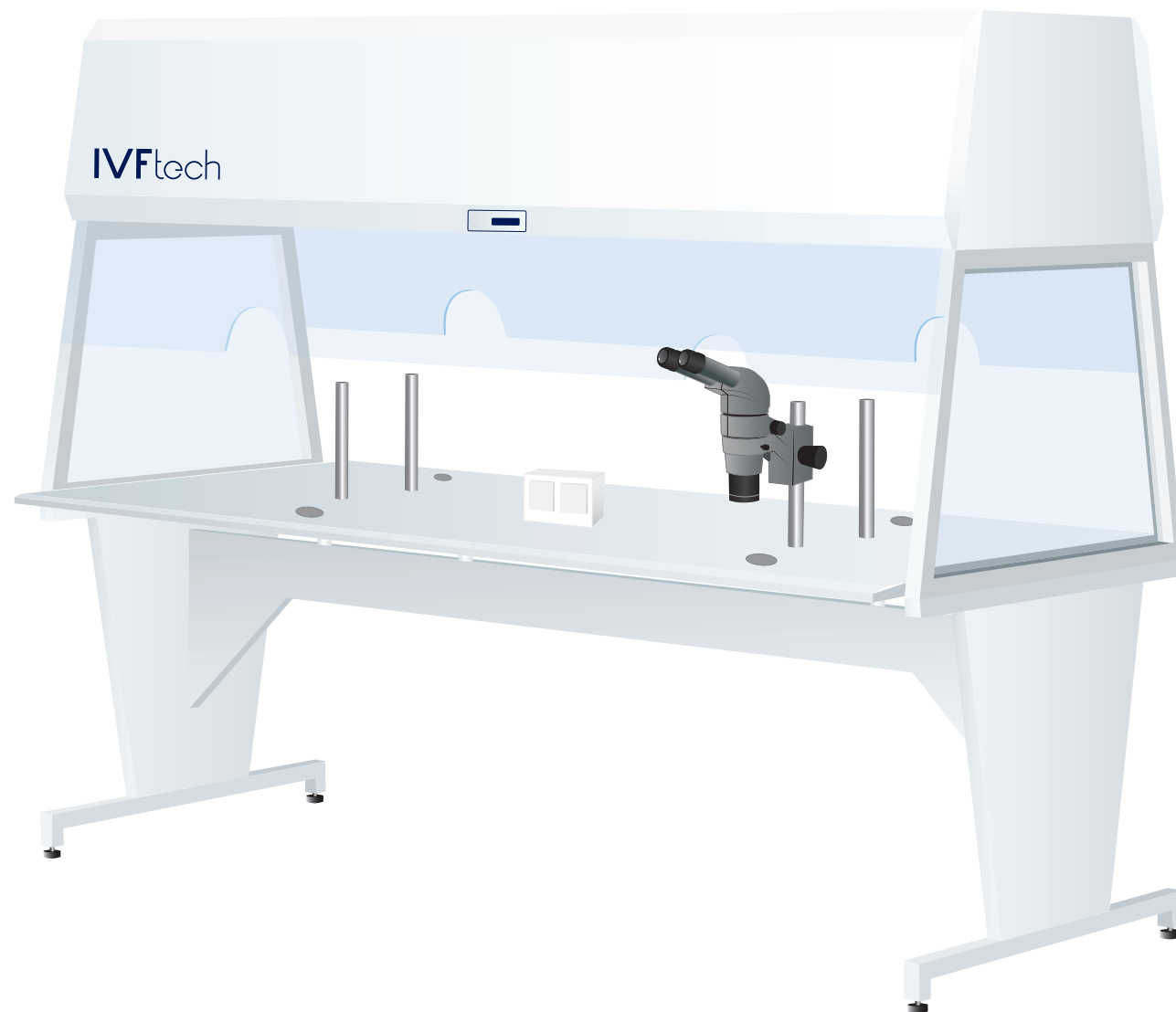


Options for
Class II
see page 18-19

CABINETS



Workplace for up to four people



IVFtech DS STERILE CABINET

IVFtech DS Sterile cabinet is a double-sided cabinet which allows the embryologists to work from both sides simultaneously providing a space saving and sociable solution. The cabinet can have up to 4 heated working areas with stereo microscopes and 2 extra small heated areas in the middle all independently controlled. Ideal for both small and larger laboratories as a peninsular or island unit.

Filtration

Class H-14 HEPA filters in accordance with EN 1822. Filter efficiency 99.999% against 0.3 μm particle size. 99.995% in MPPS.



Advantages:

- User friendly interface
- Easy to service
- Easy to clean
- Slope front for ergonomic work
- Fits all major microscope brands
- Space efficient solution for up to 4 people
- More work areas in less space
- Effective work flow
- Adjustable fan speed
- Adjustable light intensity
- Built in timer
- Low noise level
- High degree of configurability
- Option for electrical elevation stand
- Hi-Macs or stainless steel
- 120,180, 210, 240cm

Options for
DS cabinets
see page 18-19

IVFtech UNICA

The IVFtech UNICA is a semi closed system.

A careful gamete and embryos manipulation has always been a key element of laboratory embryology and has contributed substantially to the success of many assisted reproduction procedures.

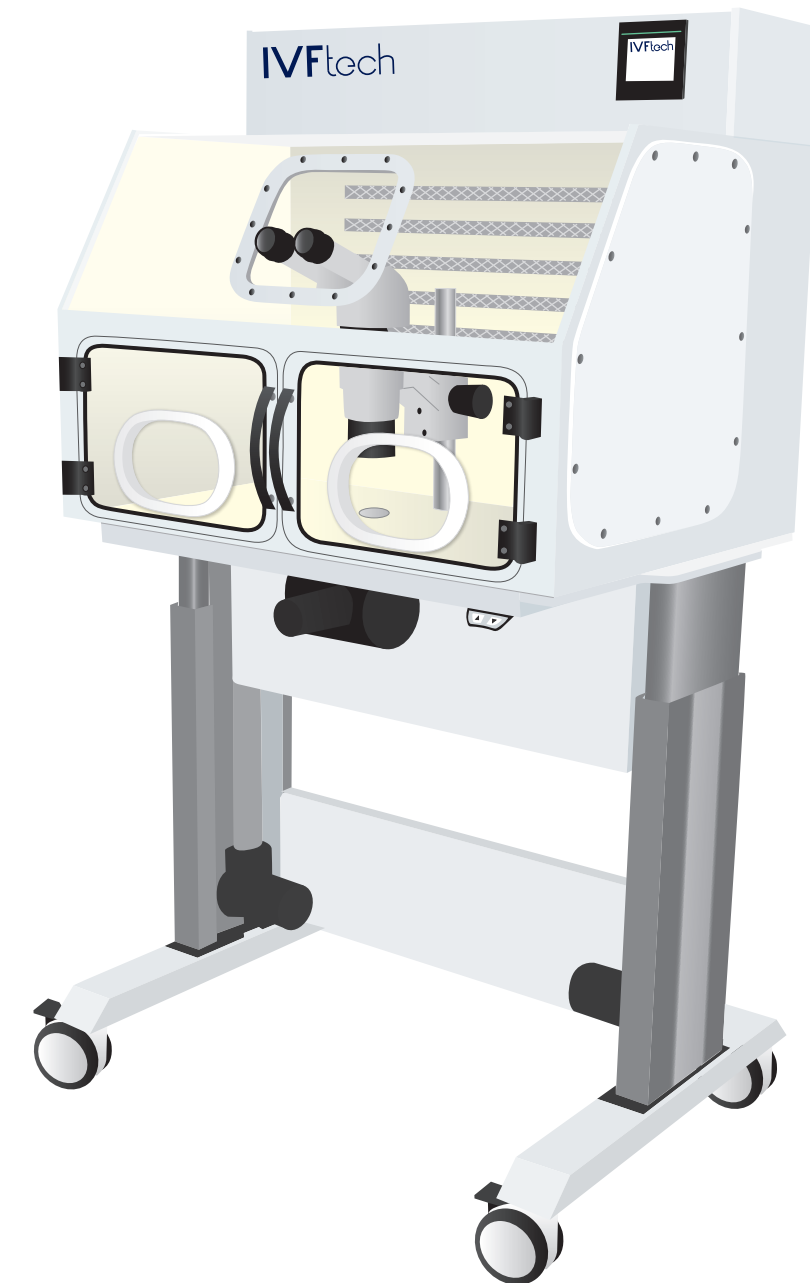
Suboptimal in vitro conditions may both distress the competence to develop in vitro and lead to irreversible long-term alterations in the characteristics of the foetal and post natal growth. Therefore caution should be taken in the handling and manipulation of the oocytes and early embryos in order to achieve a stable biological optimal atmosphere, which creates optimal conditions for embryo growth.

The employment of IVF controlled-atmosphere workstation has been proposed in order to meet the special requirements of oocyte and embryo handling during IVF daily routine.

This self-contained chamber reproduces the incubator conditions allowing the embryologists to perform oocytes and embryos manipulations while minimizing even slight alterations of the environmental conditions (temperature changes, gas composition, culture medium osmolarity and pH) and preserving the embryo developmental potential.

Advantages:

- Heated tabletop
- Heated air
- CO₂
- Easy access to chamber
- Easy to service
- Easy to clean
- Slope front for ergonomic work
- Fits all major microscope brands
- Effective work flow
- Built in timer
- Low noise level
- Efficient carbon filtration
- Option for electrical elevation stand
- Hi-Macs



Options for
Unica
see page 18-19

CABINETS

IVFtech LIGHT

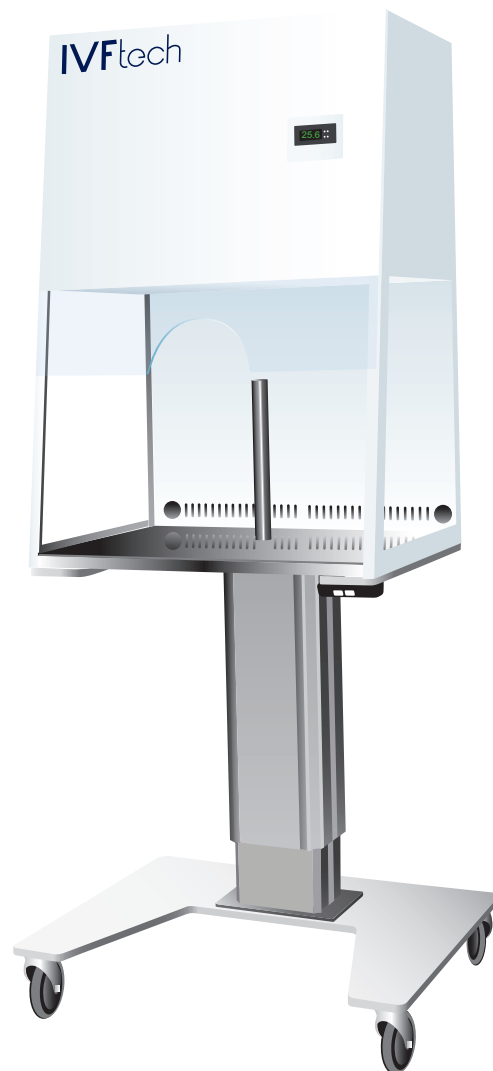
IVFtech Light is a standard cabinet.

Options:

60cm is available with one full heated area and preparation for microscope or as a cold cabinet. IVFtech Light 60cm is available with wheels, easy to move around for use in different locations. Like all our other cabinets IVFtech Light can also be supplied with adjustable electrical stand or fixed stand.

Features:

- User friendly interface
- Easy to clean
- Slope front for ergonomic work
- Fits all major microscope brands
- Fixed fan speed
- Fixed light intensity
- Cold or heated surface, one size heating mat
- Option for electrical elevation stand
- Stainless steel



IVFtech Light is a standard cabinet.

Options:

120cm is available with one standard heated area and preparation for microscope or as a cold cabinet.

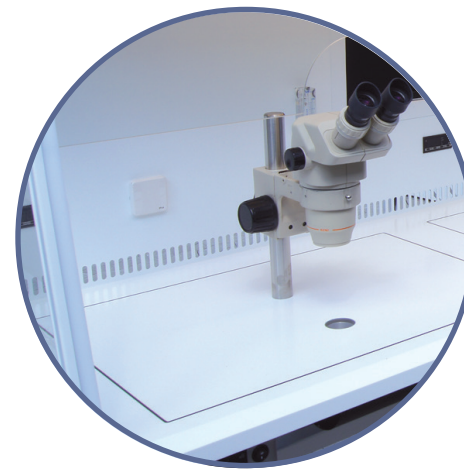
IVFtech Light 120cm is available with a fixed stand.

Features:

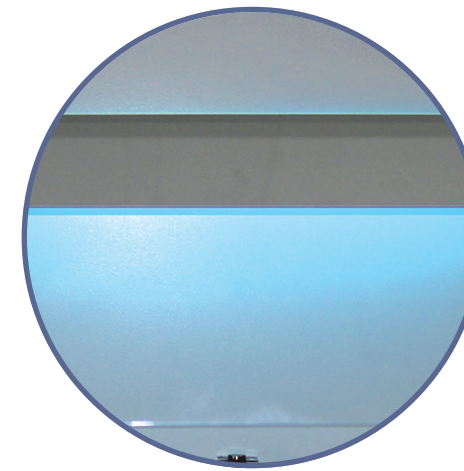
- User friendly interface
- Easy to clean
- Slope front for ergonomic work
- Fits all major microscope brands
- Fixed fan speed
- Fixed light intensity
- Cold or heated surface, one size heating mat
- Stainless steel



Holes for cables
Ø 30 mm
Ø 60 mm



Microscope and heated area



UV

APPLIANCES FOR CABINETS

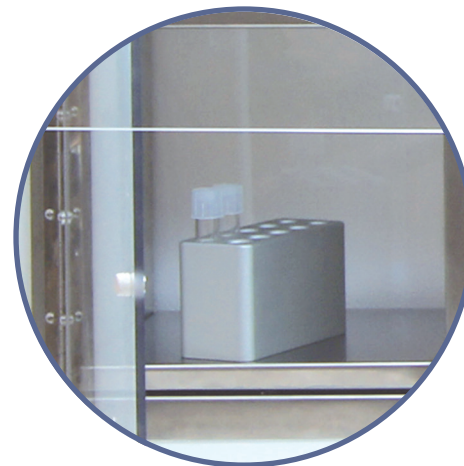
APPLIANCES FOR BACKWALL IN STERILE CABINETS



Built in incubator



Monitor



Tunnel

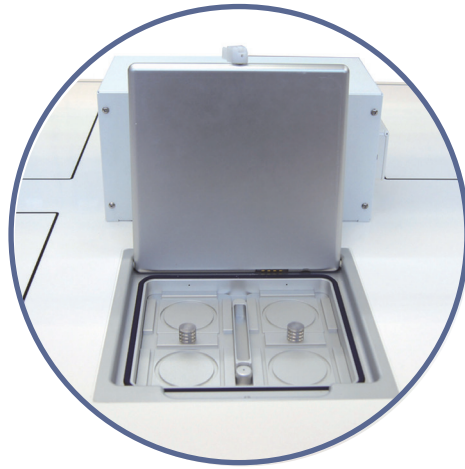


Flow meter

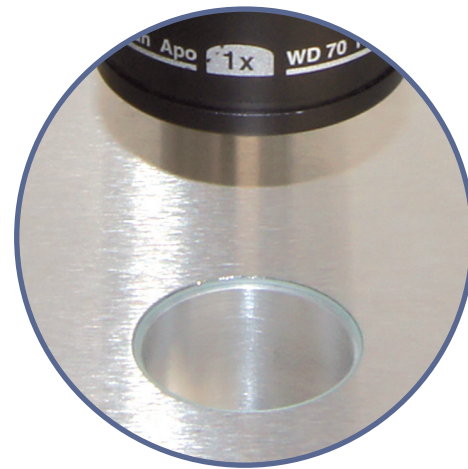


Humidifier

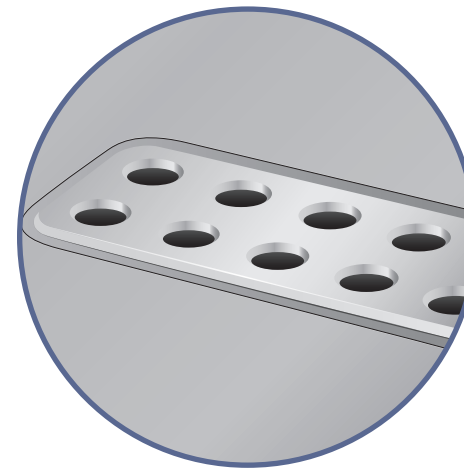
Box for ICSI
Microscope



Incubator



Heated glass



Warming block

APPLIANCES FOR CABINETS

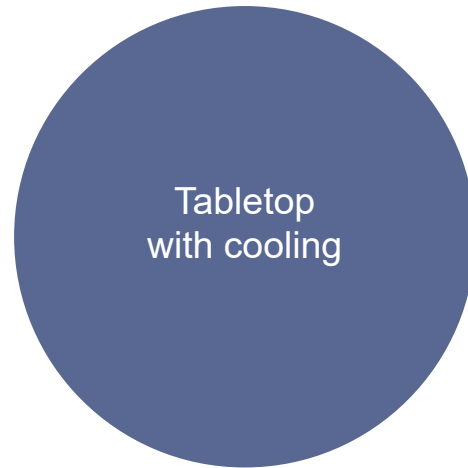
APPLIANCES FOR TABLETOP IN STERILE CABINETS



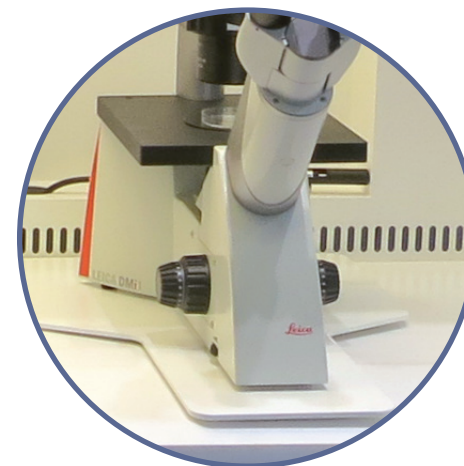
Extra heated area



Microscope



Tabletop
with cooling



ICSI



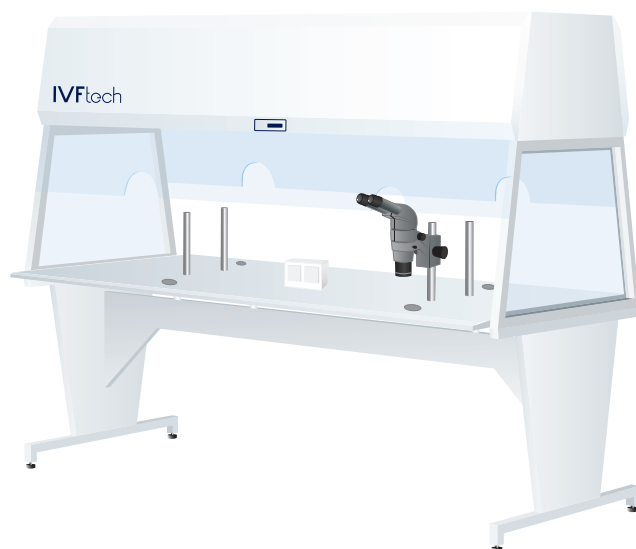
Pull out
shelf and drawer



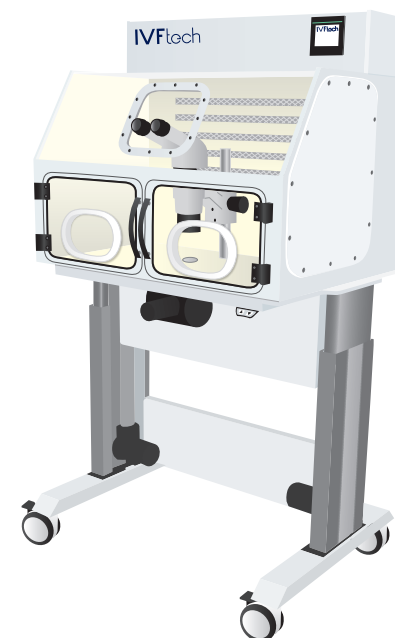
- Monitor outside
- Heated glass
- Incubator in tabletop
- Flow meter

APPLIANCES FOR CABINETS

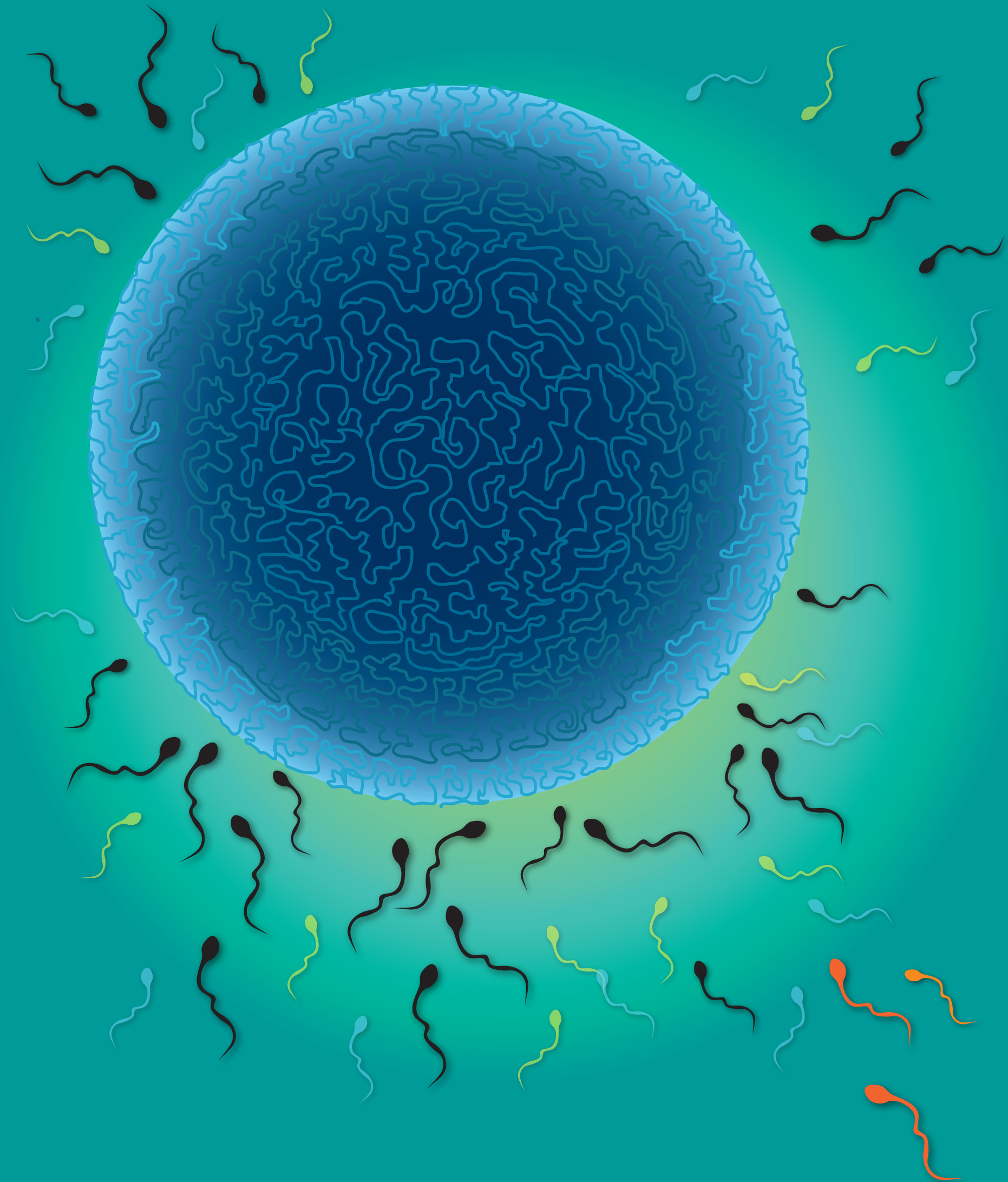
APPLIANCES FOR CLASS II, DS AND UNICA

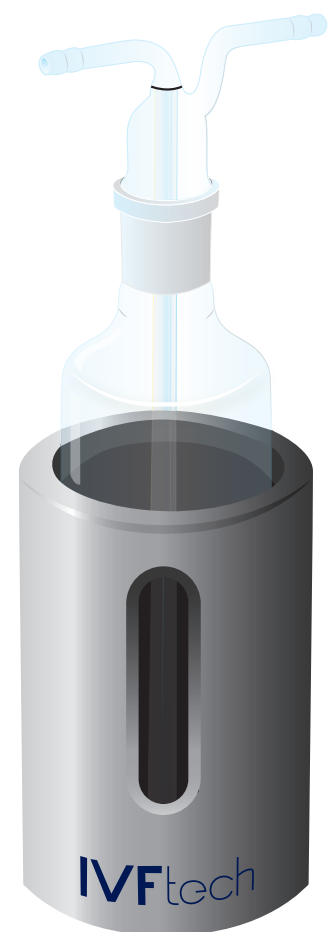


- Monitor inside
- Monitor outside
- Incubator in tabletop
- Electrical outlet
- Heated glass
- Extra heated area
- Flow meter
- ICSI



- Bracket for gas flask
- Side doors
- Iris port
- Electrical outlet
- Fix stand
- Electrical elevation stand
- Hand access port (standard)





Gas bobble flask



Media flask



10 and 20 ml syringe



6 and 14 ml tubes



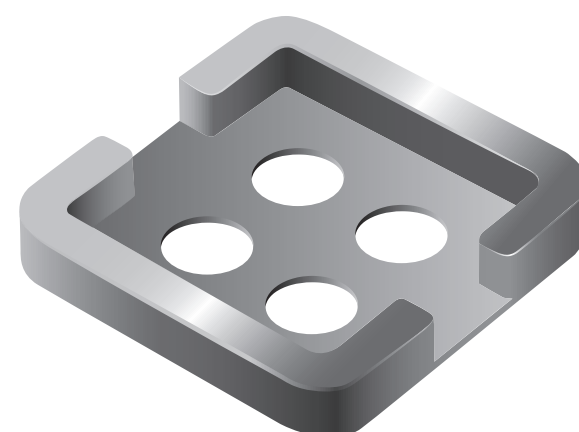
14 ml tubes

ACCESSORIES AND EQUIPMENT

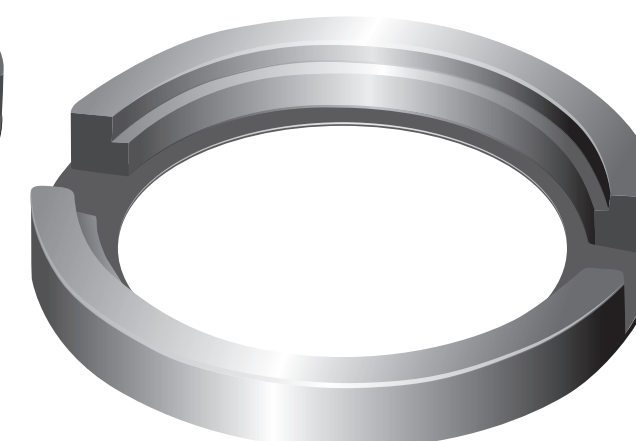
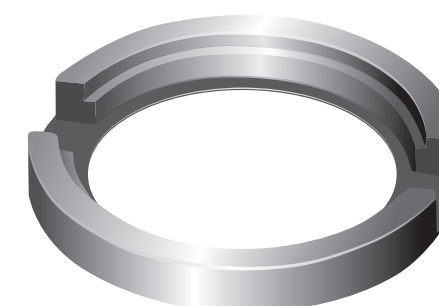
ACCESSORIES



Glass hood



4 well dish



30, 60 and 80 mm dish



Hotplate

The IVFtech Hotplate is the perfect solution for the IVF-lab that is in need of an extra heated workspaces, but don't have the need for an extra workbench. The Hotplate provides a uniform self-contained tabletop for handling of warming block, Mini-incubators, tubes ect and due to its small form factor, can be used as a portable for various placement around the IVFlab.

The IVFtech Hotplate features our easy to clean, no stain HI-MACS® finish and excellent temperature control of from ambient to 50°C with an accuracy $\pm 0.5^{\circ}\text{C}$ throughout the working surface.



Tube warmer

ACCESSORIES AND EQUIPMENT

IVFtech tubewarmer fits 12 test tubes 14ml.
Temperature easy to change.
Removeable sides for easy cleaning.
Aluminium block covers 2/3 of the tube which gives better uniform heat to the tubes.

Dimensions (cm): W:10 D:20 H:13,5
Heater power: 40W
Setpoint: Ambient to 50° C
(higher on request)

Battery option:

- More than 2 hours of working time on a full charge cycle
- Alarm for low battery



Benchtop incubator



2, 4 or 6 chamber options

- Embryo safe environment control
- Optimal growth potential due to controllable environment stable temperature and atmosphere
- Each chamber fits 4 dishes, so all in all 16-32 separate dishes are possible.
- Individually heated chambers, bottom and top heat pads
- 2 gas sensors in mixing chambers (CO₂ + O₂) to ensure optimal mixture
- Set points for temperature and gas
- Offsets for temperature and gas
- Big mixing chamber for rapid recovery when opening/closing lids
- Dedicated gas sampling ports for each chamber
- HEPA+VOC filtered air stream
- No premix gas needed, built-in gas mixer
- CO₂ + N₂ input gasses, low pressure inlet
- Low steady state power consumption (95W) at 37 degrees Celsius
- Stable temperature control, quick recovery
- Stable and precise gas control, rapid recovery
- Low gas consumption (CO₂ : 1.0 L/h, N₂ : 4.0 L/h)
- Effortless cleaning due to streamlined/sleek design, making for a spotless working environment

ACCESSORIES AND EQUIPMENT

INCUBATOR

- Unique graphical user interface with touch display
- Easy individual temperature readout on each chamber from lid displays
- Each chamber fits two plates, each capable of holding 2 dishes, making distinction and transfer of samples easier
- Cross contamination eliminated due to HEPA+VOC filtering
- 12 individual temperature sensors to monitor temperature profile
- Detachable lids for effortless cleaning



Gasmixer front



Gasmixer back

ACCESSORIES AND EQUIPMENT

GASMIXER

The IVFtech Gasmixer was created to provide an economical alternative for pre-mixed gas used in laboratories. The use of a large mixing chamber inside the mixer ensures precise CO₂ (and O₂) levels thereby providing a freedom of choice regarding culture media.

The Gasmixer may be used as a controlling unit for one or several small incubators built into a flow hood, in which case a graphical user interface is available at the front of the unit. In this way, it is possible to control the temperature of the individual chambers of the incubators from the display of the Gasmixer. The Gasmixer can be retrofitted into existing IVFtech flow hoods with built in incubators. In this scenario the Gasmixer will be controlled from the display of the flow hood.

The IVFtech Gasmixer uses a high efficiency HEPA+VOC filter, that is tested and manufactured according to cGMP and ISO 9001, to capture particle contaminants from the atmosphere surrounding the work environment.

Key Features:

- Economical alternative to pre mixed gas
- Unique graphical user interface with touch display
- Option for controlling the unit from existing flow hood with built in incubator
- Easy access at the front to HEPA+VOC filter
- Available for CO₂ only or for CO₂ and O₂ management
- Circulation pump for optimal mix and distribution of gas, adjustable speed
- Colorcoded alarms for any deviation from safety conditions and set point parameters
- Designed for convenient cleaning
- Can be used for 1 - 4 individual incubators

Anti-vibration table passive:

- Spring-loaded damper mechanism
- Constant damping



Anti-vibration table passive

The IVFtech anti-vibration tables are designed primarily for ICSI procedures but all tables are designed to meet the requirements for all models of inverted microscopes and can therefore be used for all applications where vibration dampening is crucial.



Anti-vibration table active:

- Active Electro Mechanical Vibration Isolation System
- Highly Damped Step Response
- Active Vibration Control Bandwidth 0.5Hz – 100Hz
- Excellent position stability with low susceptibility to external noise
- Microprocessor controlled algorithms
- Variable damping technology
- Monitoring capability on a PC for real time measurements of the system plus surroundings
- Ethernet network connection used for PC connectivity
- Selv-test at power up

Anti-vibration table active

TABLES

ANTIVIBRATION

A lightweight and compact vibration absorption systems allows to significantly reduce unwanted vibrations translated to working environment from environmental noise : People walking, Doors Closing, Outside Traffic, etc.
IVFtech AV significantly absorb vibrations and disturbances for Inverted Microscopes.

Advantages:

- Ergonomic design
- Heated table top
- Option for heated drawer
- Hi-macs or stainless steel



Battery table advantages:

- Ergonomic design
- Heated table top
- Full flexibility to work without A/C power
- 230v / 180w outlets for equipment
- More than 8 hours working time with table heating alone
- More than 6 hours working time with 2 tube warmers attached
- Option for heated drawer
- Hi-macs or stainless steel



Z-table with and without battery

The IVFtech Z tables are designed for use in the operating theater when doing oocyte retrieval. It has a clean smooth heated surface ideal for any warming blocks and media flasks. The draw can be used for storage or the draw can also be heated for heating the tools.

The IVFtech uniformed heated Z tables comes in a wide range of variations.



I-table

TABLES

Z-TABLE AND I-TABLE



The Heated table tops are for clean room or laboratory.
Electrical heated area
High precision temperature control makes sure to reach a high success rate for the embryo. the heating table plate is controlled by high precision PID regulator,

Heated table



- Features:**
- Sizes are available in: 90, 120, 150 and 180cm
 - Heights are in: 800-850mm
 - Easy to use
 - Easy to clean
 - Big variety of options

Heated table

TABLES

IVFtech HEATED TABLE



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