



Fertility

Equipment Overview



MIRI[®] Incubation System

The Top-of-the-Line Features of the MIRI[®] Incubation System

- **Heated Lid**
Prevents condensation. Enhances temperature regulation.
- **Completely Independent Chambers**
Any disruption (e.g., temperature drop after opening the lid) has zero impact on the rest of the system.
- **Direct Heat Transfer**
Less than one minute temperature recovery.
- **A Complete Incubation Environment**
 - Has a built-in gas mixer. Premixed gas is not required.
 - Built-in pH measuring system and data logging system.

MIRI[®] Time-Lapse Incubator



Time-Lapse Monitoring

Time-Lapse video monitoring enables detailed scoring of cultured embryos to better predict embryo development and implantation potential.

Comes in Two Variants

- MIRI[®] TL6: Six Individual Chambers
- MIRI[®] TL12: Twelve Individual Chambers

A Complete Incubation Environment

- Premixed gas is not required and cannot be used in MIRI[®] TL.
- Built-in pH measuring system and data logging system.

Fast Recovery

Gas recovery within three (3) minutes.

Two Temperature Mode Options

- Single - Uniform set points for all chambers.
- Multi - Individual set points for each chamber.

This equipment is a CE-marked device and is in conformity with the essential requirements of the Medical Devices Directive 93/42/EEC as amended by Directive 2007/47/EC.

MIRI[®] Multiroom Incubator



Recirculated Gas System

The gas in the MIRI[®] is recirculated through a HEPA/VOC Filtration system, which effectively removes Volatile Organic Compounds (VOCs) and particulates larger than 0.3 μm .

This equipment is a CE-marked device and is in conformity with the essential requirements of the Medical Devices Directive 93/42/EEC as amended by Directive 2007/47/EC.



MIRI® II Multiroom Incubator



One patient - One chamber

dedicates one chamber for one patient to ultimately secure a minimum-stress environment for embryos

Intuitive and User-Friendly Touchscreen PC

used to control and monitor important parameters simultaneously

Small footprint

space-saving equipment for laboratories

Mini MIRI® Incubator



Dual Chamber System

Any disruption (e.g. temperature drop after opening the lid) has zero impact on the rest of the system. Furthermore, calibration is much simpler since there is no crossover of heat from adjacent chamber.

Ergonomic Design

- You can write on the glass lid tops for easy patient designation.
- The Mini MIRI® has a large LED display that can be easily seen from a distance.

Built-in Gas Mixer

Premixed gas is not required.

Comes in two models:



Mini MIRI® with Humidification

- Built-in humidity sensor for accurate and continuous readings.
- The water bottle is located on the side of the unit for refilling and easy control of water level.



Mini MIRI® Dry

Comes with a UV module and HEPA/VOC filter.



CultureCoin®

A culture dish, exclusively designed for the MIRI® TL

One (1) MIRI® TL chamber can hold one (1) CultureCoin®. Each dish can accommodate up to fourteen (14) embryos, each with a numbered well assignment. The MIRI® TL6 can hold up to 84 embryos, and the MIRI® TL12 up to 168 embryos.



CelCulture® CO₂ Incubator

CelCulture® is equipped with a 90°C Moist Heat Decontamination System evaluated by HPA-UK. This incubator utilizes its ULPA filter to keep the chamber at ISO Class 5 cleanliness. It offers rapid parameter recovery and has ISOCIDE™ antimicrobial coating. It can be fitted with an optional Inner Door Kit (which reduces contamination risk) and other accessories for specialized applications. In addition, it can be set up on a floor stand with casters, a roller base, or a floor stand with adjustable feet.

CelCulture® CO₂ Incubators are available in 3 sizes: 50 L, 170 L, and 240 L.



Esco Multi-Zone ART Workstation

This is the only workstation with built-in incubation chambers and a tri-gas mixer.

Multi-Zone Heating System

One set point for 10 independent zones with their own heating elements and sensors allows for excellent uniformity.

Less Noise, Less Vibrations

The Esco Multi-Zone ART Workstation's state-of-the-art design and features deliver less noise and less vibrations. This makes it suitable for sensitive microscopic work.

Superior Air Cleanliness

Esco workstations provide ISO Class 3 air cleanliness within the workzone as per ISO 14644.1.



Choose the Right Companion.

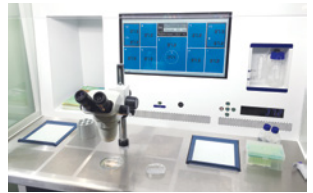


Esco Multi-Zone ART Workstation Class II with MIRI® Chambers



Microscope Integration Provision

With an integrated stereomicroscope in the work chamber, keep the culture dishes at the right temperature at all times while observation and manipulation are carried out. (Microscope is not included.)



MIRI® Chambers

Your specimens are more secured than ever with the integrated MIRI® chambers, known for stable and precise temperature output.

Support Stand Options

More options to choose from, to meet your fertility center's requirements.





Semi-Closed Environment (SCE)

Maximum control over the environment throughout the entire ART procedure is bound to lead to better outcomes.

With the SCE product line for IVF and ICSI, perform microscopy with stable, controlled, and monitored temperature and CO₂ levels.

The SCE has a three-in-one joystick that can help you control images, micromanipulators, and injectors with fewer unnecessary movements around the IVF laboratory.

The SCE also uses a bicarbonate buffer medium, our own electrical micromanipulator, as well as a movable directional laser. Ask us to learn more or contact us to get our specialists to demonstrate how to use these features.

Key Features

- 2 incubator compartments with access from the front (inside the work area) and from the back (outside the work area).
- Pre-installed stereomicroscope or micromanipulator (based on your requirements).
- CO₂ controlled environment is separately monitored in the working area and the 2 incubator compartments.
- VOC filtering of the air in the incubators and large work area.
- The data logging report can be viewed in an hourly, daily or weekly basis.



Anti-Vibration Table (AVT)

The Anti Vibration Table was designed specifically for micro-manipulation procedures.

The AVT has a mechanism for passive damping that isolates the microscope from vibrations during In Vitro Fertilization (IVF) and Intra-Cytoplasmic Sperm Injection (ICSI) procedures.

It is constructed with a stainless steel table-top with glass on both sides, making it easy-to-use and almost maintenance-free.



Versati™ Tabletop Refrigerated Centrifuge

Versati™ Tabletop centrifuge refrigerated model TCR stand out among the same level products with their versatility, running features and easy handling. It can be used with high-capacity and low-to-high speed general-purpose centrifuge applications. It is suitable for sperm purification process during animal IVF because of its adjustable temperature range (-200°C to +400°C).

Key Features

- Compact Design
- Incredible Flexibility
- High Temperature Ramp Rate
- Fast Pre-cooling
- Overspeed Protection
- Over Temperature Protection



Move Forward with Complete Confidence in Life.



MIRI[®] GA Gas & Temperature Validation Unit

The MIRI[®] GA is a table-top device designed to make external incubator validation easier and safer.

- Capable of monitoring the temperature (PT1000 connector) as well as gas concentration, flow, and pressure.
- Can validate up to 6 chambers simultaneously 24 hours a day.
- Has an adjustable flow rate which gives it the ability to properly sample small-volume incubation chambers.
- Comes with a full data logger software which is helpful in monitoring each parameter.

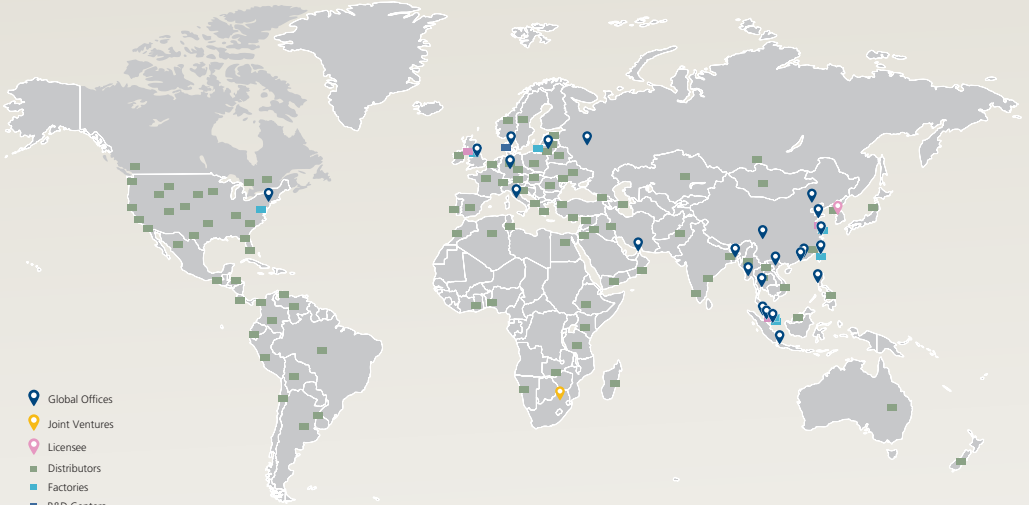
SAFE Sens Integration*

The optional integration of SAFE Sens technology into any Esco MIRI[®] incubator allows for the highly reliable pH monitoring of media. Each single-use sensor can be utilized for up to 7 days so you can get real-time, continuous pH monitoring for your embryo culture at your fingertips.

* SAFE Sens is a trademark brand of Blood Cell Storage, Inc. (BCSI). SAFE Sens integration is currently offered as a factory-installed option.



ESCO GLOBAL NETWORK



- 📍 Global Offices
- 📍 Joint Ventures
- 📍 Licensee
- Distributors
- Factories
- R&D Centers
- Regional Distribution Centers



Esco Medical Products:

- MIRI[®] TL6 Time-Lapse Incubator
- MIRI[®] TL12 Time-Lapse Incubator
- MIRI[®] Multiroom Incubator
- MIRI[®] II Multiroom Incubator
- Mini MIRI[®] Incubator
- Esco Multi-Zone ART Workstation
- Esco Multi-Zone ART Workstation Class II
- CelCulture[®] CO₂ Incubator
- MIRI[®] GA (Gas and Temperature Validation Unit)
- Anti-Vibration Table (AVT)
- Versati[™] Tabletop Refrigerated Centrifuge
- CultureCoin[®]

Infertility is a problem that has a significant social, psychological, and economic impact on afflicted individuals and couples. It is a global concern that knows no race or creed. It has been estimated that 1 in 6 couples struggle with infertility at least once in their lifetime.

Esco Medical is one of the divisions of the Esco Lifesciences Group. We provide innovative technological solutions for fertility clinics and laboratories. We aim to become the leading manufacturer of high-quality equipment such as long-term embryo incubators, ART workstations, anti-vibration tables, and time-lapse incubators.

Our products are designed with the Silent Embryo Hypothesis as a guiding principle. The Silent Embryo Hypothesis states that the less disturbed an embryo can remain, the better its developmental potential will be. Most of our products are designed in Denmark and made in the EU. Our primary focus is to increase pregnancy success rates and patient satisfaction.



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Designed in Denmark Made in the E.U.

