



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



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.



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.

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-12 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® Humidity

- 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.



Choose the Right Companion.



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.

Non-toxic, Non-radiating Stainless Steel Tabletop

The main material used in the tabletop surface is stainless steel, while aluminum is used for covering the bottom of the tabletop.



Stereomicroscope

The Esco stereomicroscope is a type of optical microscope that allows the user to see a three-dimensional view of a specimen. This Esco MS-I Stereo Microscope is very useful in assessing oocyte and embryo morphology and viability. It has a built-in camera mount where you can place your camera set for a better viewing and documentation of images. Moreover, additional objective lenses (0,3x, 0,4x, 0,75x) can be screwed on the microscope head for additional magnification.

Black and White Work Board

This enhances the user's viewing of specimen/ samples.

PK-Mount and Camera Set

Allows mounting a camera set that will help the user to have a better look on their slide.

Adjustable Interpupillary Distance

Allows adjustment of the distance between two eyepieces depending on their preference.

Up Light Source

This is one of the adaptations in an inverted designed microscope that is useful in an IVF laboratory as it is designed for inspection of gametes and embryos.

Move Forward with Complete Confidence in Life.



Anti-Vibration Table (AVT)

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

The AVT has a mechanism for passive dampening that isolates the microscope from vibrations during In Vitro Fertilization (IVF) and Intracytoplasmic 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



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.



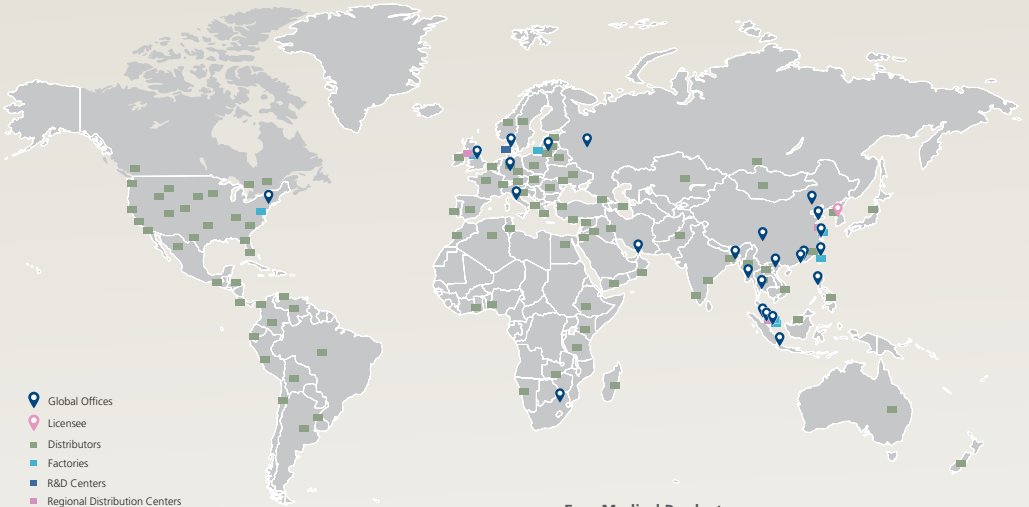
SAFE Sens Integration*

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 LIFESCIENCES GROUP



Esco Medical Products:

- MIRI® TL6 Time-Lapse Incubator
- MIRI® TL12 Time-Lapse Incubator
- MIRI® Multiroom Incubator
- MIRI® II-12 Multiroom Incubator
- Mini MIRI® Dry Incubator
- Mini MIRI® Humidity Incubator
- Esco Multi-Zone ART Workstation
- 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.



21 Changi South Street 1 • Singapore 486 777
 Tel +65 6542 0833 • medical@escolifesciences.com
www.esco-medical.com

Esco Global Offices: Bangladesh | China | Denmark | Germany | Hong Kong | Indonesia | Lithuania | Malaysia | Myanmar | Philippines | Russia | Singapore | South Africa | South Korea | Taiwan | Thailand | UAE | UK | USA | Vietnam



Designed in Denmark



Made in the E.U.

