



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.
- **Has a built-in gas mixer.**
- **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 EU regulation 2017/745.



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

- Has a built-in gas mixer (for use of pure gas). Premixed gas is not supported in the system.
- 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 Incubators



MIRI[®] Multiroom (Dry)

- 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 .
- Additionally, the gas is sterilized via a built-in UV light module.

This equipment is a CE-marked device and is in conformity with the essential requirements of the medical devices EU regulation 2017/745.



MIRI[®] Humidity

- Built-in passive humidification system.
- The water bottle is located at the back of the unit for easier access



MIRI® II-12 Multiroom Incubator



This equipment is a CE-marked device and is in conformity with the essential requirements of the medical devices EU regulation 2017/745.



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 (but possible to use).

Comes in two models:



Mini MIRI® Humidity

- Built-in passive humidification system.
- 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.

This equipment is a CE-marked device and is in conformity with the essential requirements of the medical devices EU regulation 2017/745.



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.

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

As an adaptation in this stereo microscope, the up light source will be useful inside your IVF laboratory, since it was designed for inspection of the gametes and embryos.



Move Forward with Complete Confidence in Life.



MIRI® AVT (Anti-Vibration Table)

The MIRI® AVT was designed specifically for micro-manipulation procedures.

The MIRI® AVT has a mechanism for passive dampening that isolates the microscope from vibrations during Intra-Cytoplasmic Sperm Injection (ICSI) procedures.

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



Versati™ Tabletop Centrifuge

Versati™ Tabletop centrifuge stands out among the same-level products with its 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 the 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.



MIRI® Evidence

MIRI® Evidence is redefining the way traceability in laboratory procedures is managed and stored in fertility clinics, eliminating errors, preventing system mix-ups, saving time, and helping clinics to

comply with regulations. This tool provides a single, secure platform that ensures all patients are scheduled on time and documented properly - saving time and improving outcomes across the board.

The MIRI® Evidence workflow proposes tools to improve scheduling and documentation procedures, refining both clinical and administrative processes in a fertility clinic.

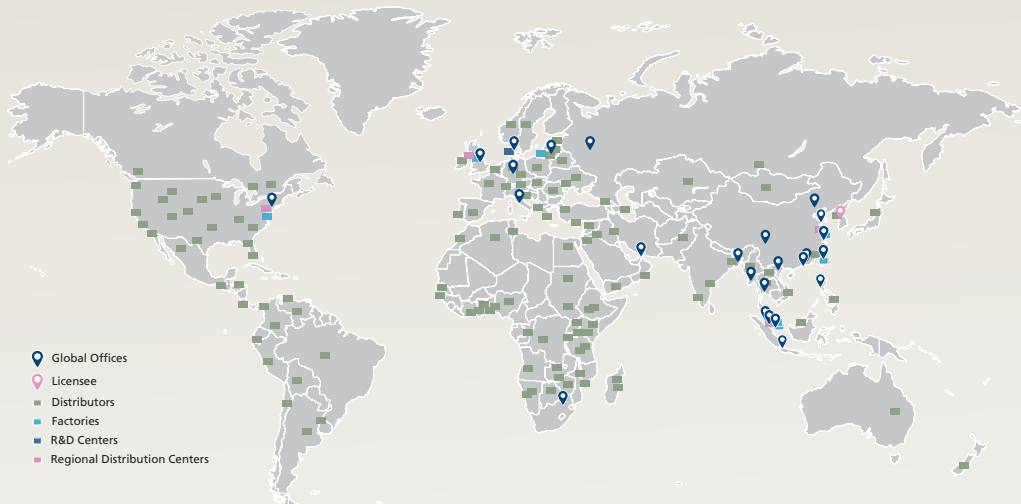
SAFE Sens Integration *

The optional integration of SAFE Sens technology into any Esco MIRI® Incubator allows for the highly reliable pH monitoring system of the media. Each disposable pH sensor is specifically designed to have a small footprint while continuously collecting pH data for your embryo culture for up to 7 days.

* 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® Humidity Multiroom Incubator
MIRI® II-12 Multiroom Incubator
Mini MIRI® Dry Incubator
Mini MIRI® Humidity Incubator
Esco Multi-Zone ART Workstation
MIRI® Laminar Flow

MIRI® Evidence RFID Witnessing System
CelCulture® CO₂ Incubator
MIRI® GA (Gas and Temperature Validation Unit)
MIRI® AVT
Versati™ Tabletop 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.

ESCO MEDICAL

19 Changi South Street 1, Singapore 486779
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.