

# Miri<sup>®</sup> TL

“An affordable time-lapse incubation system for IVF”

## Excellent Stability and Recovery. Unique Incubation Environment. Minimal Gas Consumption.

Just a few of the things you'll love about the Miri<sup>®</sup> Time-Lapse, packed with features you want in an IVF incubator.



### Unique Incubation Environment

- Has six (6) independent chambers.
- Gas recirculation through HEPA-VOC filters and UV light.
- Built-in gas mixer. Pre-mixed gas is not required.



### Unprecedented Faster Recovery

- Excellent recovery time for both temperature and gas parameters.
- Opening one chamber will have no impact on the rest of the system.
- Heated upper lid and bottom plate for excellent temperature regulation and uniformity



### Sophisticated Annotation Tools

- Freedom to personalize instrument and parameter settings.
- Do a side-by-side comparison and compare actual timings to ideal.



### Quality checking an easy breeze!

- Has 12 temperature sensors to ensure constant temperature stability.
- Independent PT1000 sensor and gas sample port for external validation.
- Built-in pH measuring system.
- Data-logging system.



# General Specification

Miri® TL Technical Specifications	
Overall Dimensions	950mm x 600mm x 370mm (37.4" x 23.6" x 14.6")
Temperature Control Range	25-40°C
Gas consumption (CO <sub>2</sub> ) *	< 2 L/h
Gas consumption (N <sub>2</sub> ) **	< 10 L/h
CO <sub>2</sub> control range	1.9 - 10%
O <sub>2</sub> control range	5 - 20%
Input gas pressure	0.6 bar (8.7 psi)
Built-in microscope	Zeiss 20x, objective has numerical aperture of 0.35, specialized for 635 nm illumination
Embryo illumination	0.064s per image, using 1W single red LED (635nm)
Camera resolution	1280x1024. Monochrome, 8-bit, IDS system.
Optics tube ratio	2.22 px/μm
Imaging Focal planes	5 min. image interval in 3 to 7 focal planes
Net Weight	65 kg (143 lbs)

\* Under normal condition (CO<sub>2</sub> set point reached at 5.0%, all lids closed).

\*\* Under normal condition (O<sub>2</sub> set point reached at 5.0%, all lids closed).

Ordering Information	
MRI-TL8	Miri® Time-Lapse Incubator System, 230 V, 50/60 Hz
MRI-TL9	Miri® Time-Lapse Incubator System, 115 V, 50/60 Hz
Accessories	
MRA-1007	HEPA + VOC filter (to be replaced every 3 months)
MRI-CC	CultureCoin for Time-Lapse of 14 embryos (25 pcs. per pack)
MRI-CCC	Communal CultureCoin for Time-Lapse of 14 embryos (25 pcs. per pack)

## Certification



The Time-Lapse incubator keeps true to Esco's world class expertise and quality in IVF technology.

