

Enabling better fertility outcomes with first-in-class solutions

Fertility

Product Catalogue



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About Esco



Welcome to Esco

Esco Group is a Singapore-based life science company with a diversified portfolio and sales in over 100 countries. As a leading manufacturer of laboratory and biopharma equipment, as well as IVF medical devices, Esco offers tailored solutions that fit the needs of laboratories.

Esco contributes to meet the challenges of the 21st century by continuously innovating our products to support cutting-edge research, helping bio-pharmaceutical companies make their drugs safer and more cost effective, enabling lower cost manufacturing of vaccines, and directly through innovative medical devices and diagnostics.

Esco operates under ISO9001, ISO14001 and ISO 13485 standards to ensure that products and services are safe, reliable and of good quality. Production facility is also audited regularly by independent agencies such as UL, NSF, and others.

At Esco Medical, Life has begun

Esco Medical is one of the divisions of the Esco Group of companies, apart from Life Sciences and Healthcare. Esco Medical provides innovative technological solutions for fertility clinics and laboratories.

The slightest deviation, usually considered as insignificant, often result in non-optimal conditions for embryo growth and lowered pregnancy success. In Esco, we understand that even the smallest details affect the In Vitro Fertilization process. Thus, Esco Medical's primary focus is to provide fertility technologies and solutions to help the world's leading IVF centers to improve, standardize and automate their processes in order to achieve better clinical outcomes and patient satisfaction.

Esco Medical is the leading manufacturer and innovator of high-quality equipment such as Time-Lapse Incubator, Multiroom Embryo Incubators, IVF Workstation, CO_2 Incubator, Anti-Vibration Table, and Gas Analyser. Most of our medical products are designed in Denmark and made in the EU.



MIRI® Time-Lapse Incubator



MIRI® TL is a Time-Lapse incubator that monitors embryo development. The MIRI® TL, optimized for clinical and IVF procedures, is designed to support existing work and quality assurance routines. This value-added treatment provides the most unique incubation environment with the market's most secure and safest procedures. It lessens disturbance and minimizes stressful factors that may be introduced when taking the dishes out of the incubator. This incubation system also ensures predictability in the daily handling and currently offers the market's lowest cost of ownership.



Unique Incubation Environment

- Has independent multi-chamber system
- · Gas recirculation through HEPA/VOC filters and UV light.
- Built-in gas mixer. Premixed gas is not required.



MIRI® TL12: 12 Individual chambers

Gas recovery: less than three (3) minutes Temperature recovery: less than one (1) minute

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.



2 Temperature Mode Options:

• Single: Uniform set points for all 6 (six) chambers. • Multi: Individual set points for each chamber

Sophisticated Annotation Tools

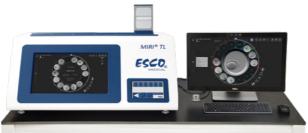
- Freedom to personalize instrument and parameter settings.
- Do a side-by-side comparison and compare actual timings to ideal.



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.

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.





CultureCoin® for MIRI® TL

- Holds up to 14 embryos with individual numbered wells (1-14).
- For single and separated culture where each embryo are cultured in its own environment.
- Ergonomic design for easy handling and location of embryos.
- Separate well for pH measurements
- Oxygen plasma treated for high wet-ability (hydroscopic)
- Packed in 1 dish pouches and delivered in boxes of 25 pcs

Ordering Information

Item code: 1320088

Description: CultureCoin® for Time-Lapse of 14 embryos (25 pcs. per pack)

Embryo Analysis and Evaluation System

The MIRI® TL Viewer Software is a simple yet sophisticated information-providing tool that can help embryologists process the data generated. You can review, annotate and compare the morphokinetic parameters of each embryo to select or deselect embryos for transfer and export data for retrospective analysis.



Navigation through the stacked timeline is easy and intuitive as the revolver shows the videos of the 14 wells of one single CultureCoin®. You can play the individual videos, annotate and compare each single embryo. Shown on the image is a magnified view of embryo #7



Assisted Annotation

The MIRI® "Assist" tool automatically detects early embryo cleavage events.

General Specifications

Specifications	TL6	TL12	
Overall Dimensions (W x D x H)	805 x 585 x 385 mm (31.7 x 23.0 x 14.8")	950 x 685 x 375 mm (37.4 x 27.0 x 14.8")	
Temperature Control Range	2	5 - 40 °C	
Gas Consumption (CO ₂) *		< 2 L/h	
Gas Consumption (N ₂) **		< 5 L/h	
CO ₂ Control Range	1.9 - 10%		
O ₂ 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	1280 x 1024. 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		

- * Under normal condition (CO₂ set point reached at 5.0%, all lids closed).
- ** Under normal condition (O₂ set point reached at 5.0%, all lids closed).

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ITEM CODE	MODEL CODE	DESCRIPTION
Unit		
2070091	MRI-TL-MN-6C-8	MIRI® Time-Lapse Incubator, Mini, 6 Chambers, 230 V, 50/60 Hz
2070092	MRI-TL-MN-6C-9	MIRI® Time-Lapse Incubator, Mini, 6 Chambers, 115 V, 50/60 Hz
2070098	MRI-TL-MN-6C-SS-8	MIRI® Time-Lapse Incubator, Mini, 6 chambers with SAFE Sens, 230 V, 60/60 Hz
2070099	MRI-TL-MN-6C-SS-9	MIRI® Time-Lapse Incubator, Mini, 6 chambers with SAFE Sens, 115 V, 60/60 Hz
2070100	MRI-TL-12C-8	MIRI® Time-Lapse Incubator, 12 Chambers, 230 V, 50/60 Hz
2070101	MRI-TL-12C-9	MIRI® Time-Lapse Incubator, 12 Chambers, 115 V, 50/60 Hz
2070114	MRI-TL-12C-SS-8	MIRI® Time-Lapse Incubator, 12 Chambers, 230V 50/60Hz, with SAFE Sens
2070115	MRI-TL-12C-SS-9	MIRI® Time-Lapse Incubator, 12 Chambers, 110V 50/60Hz, with SAFE Sens
Accessories		
1320011	MRA-1007	HEPA + VOC filter (to be replaced every 3 months)
1320088	MRI-CC	CultureCoin® for Time-Lapse of 14 embryos (25 pcs. per pack)
1320045	MRI-GA	MIRI® GA CO ₂ /O ₂ & Temperature Validation Unit, 115V/ 230V

Multiroom Incubator

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

- 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® Multiroom Incubator

The MIRI® is a revolution, in form and functionality, of CO₂ incubators for *In Vitro* Fertilization (IVF). With 6 chambers, the MIRI® is a Multiroom Incubator that allows users to access their cultures in one chamber without affecting the neighbouring chambers. Thus, the harmful effects of fluctuations in temperature and gas caused by frequent incubator access are avoided. Built specifically to equip IVF laboratories and clinics to provide the best standard of care, it boasts a unique set of features that cannot be found elsewhere.

Key Features

Fast Recovery

- 1 minute temperature recovery.
- 3 minutes gas recovery.

Built-in pH meter

For accurate validation.

Solid Validation System

- Six (6) PT1000 sensors and Gas ports for validation outputs
- SAFE Sens Integration for pH monitoring (optional).
- External Data Logging.
- Alarm relay contact
- Total capacity of up to 48 standard culture dishes.
- Separate CO₂ and O₂ regulation, expensive mixed gases not required!
- Air is continuously cleaned by HEPA/ VOC filters, and UV light.



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.

Stacking Frames



MIRI® Stacking Frame with drawer



MRA-1014 - Stacking frame for 2 units

MIRI® II Multiroom Incubator



The MIRI® II is an incubator that provides unique features for every IVF laboratories and clinics. The chambers are specially designed to accommodate one patient ensuring personal space for each embryo. Having an excellent footprint, MIRI® II is made to perfectly fit every IVF lab.

Independent Chambers

Each chamber is specially designed for one patient. Hence, there is no disturbance to other chambers even when a lid is opened/closed.

Excellent footprint

With its compact size, it can perfectly fit in every IVF Lab.

Low gas consumption

The built-in gas mixer and efficient recirculation system allows you to save more.



Just a fitting solution...

MIRI® II comes with specific inserts matching the type of dishes used in the laboratories.

Heating optimization plates

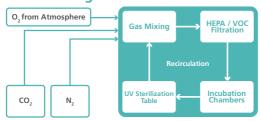
Each chamber contains a heating optimization plate to facilitate heat transfer directly to the culture dishes.

• Has inserts to fit various dish sizes



The dishes fit into the inserts so that the heat is directly transferred to the media.

Airflow Diagram



Provides total control of the gas phase environment. The built-in gas mixer and the high-performance CO_2 and O_2 sensors allow accurate control of gas composition in the chambers.

General Specifications

MIRI® Multiroom Incubator

Overall Dimensions (W x D x H)	700 x 580 x 160 mm (27.6" x 22.9" x 6.3")
Power Supply	115 / 230V, 50/60 Hz
Power Consumption	280 W
Temperature Control Range	25 - 40°C
*Gas Consumption (CO ₂)	< 2 L/h
**Gas Consumption (N ₂)	< 10 L/h
CO ₂ Control Range	1.9 - 10%
O ₂ Control Range	5 - 20%
Input Gas Pressure (CO ₂)	0.6 bar (8.7 psi)
Input Gas Pressure (N ₂)	0.6 bar (8.7 psi)
Net Weight	35 kg (77.2 lbs)
Shipping Weight	40 kg (88.2 lbs)
Shipping Dimension	840 x 735 x 300 mm (33.1" X 29" x 11.9")

^{*} Under normal condition (CO $_2$ set point reached at 5.0%, all lids closed) ** Under normal condition (O $_2$ set point reached at 5.0%, all lids closed)

MIRI® II Multiroom Incubator: MIRI® II 12 Chambers

Overall Dimensions (W x D x H)	739 x 560 x 194 mm (29.1 x 22 x 7.6")
Power Supply	115V 50/60 Hz or 230V 50/60 Hz
Power Consumption	530 W
Temperature Control Range	25 - 40° C
*Gas Consumption (CO ₂)	<2 L/h
**Gas Consumption (N ₂)	<6 L/h
CO ₂ Control Range	1.9 - 10 %
O ₂ Control Range	5 - 20%
Input Gas Pressure (CO ₂)	0.6 bar (8.70 psi)
Input Gas Pressure (N ₂)	0.6 bar (8.70 psi)
Net Weight	45 kg
Shipping Weight	60 kg
Shipping Dimension	880 x 700 x 355 mm

^{*} Under normal condition (CO₂ set point reached at 5.0%, all lids closed)
** Under normal condition (O₃ set point reached at 5.0%, all lids closed)

ITEM CODE	MODEL CODE	DESCRIPTION			
MIRI® Multiroom Incub	MIRI® Multiroom Incubator				
2070047	MRI-6A10-8	MIRI® Incubator, 230V, 50/60Hz			
2070048	MRI-6A10-9	MIRI® Incubator, 115V, 50/60Hz			
2070086	MRI-6A10-SS-8	MIRI® Incubator, with SAFE Sens for pH measurement, 230V, 50/60Hz			
2070087	MRI-6A10-SS-9	MIRI® Incubator, with SAFE Sens for pH measurement, 115V, 50/60Hz			
1320045	MRI-GA	MIRI® GA CO_2 / O_2 & Temperature Validation Unit, 115V / 230V			
MIRI® II Multiroom Inco	ubator				
2070164	MRI2-12C-8	MIRI® II Incubator with 12 chambers, 230V, 50/60Hz			
2070165	MRI2-12C-9	MIRI® II Incubator with 12 chambers, 115V, 50/60Hz			
2070166	MRI2-12C-SS-8	MIRI® II Incubator with 12 chambers, with SAFE Sens, 230V, 50/60Hz			
2070167	MRI2-12C-SS-9	MIRI® II Incubator with 12 chambers, with SAFE Sens, 115V, 50/60Hz			

Mini MIRI® Incubator



Built on the strong and reliable MIRI® Multiroom, the Mini MIRI® is an incubator that provides a stable culture environment. It has two chambers that prevent cross-contamination while HEPAVOC filtration cleans the incoming airstream. The compact design and direct heat regulation further translate to faster temperature and gas recovery.

Comes in two models:



Mini MIRI® Humidified

- 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

- Has a built-in gas mixer. Premixed gas is not required
- Comes with a UV module and HEPA/VOC filter.

General Specifications

Model	Mini MIRI® Humidified	Mini MIRI® Dry	
Overall Dimensions (W x D x H)	525 x 420 x 220 mm (20.7 x 16.5 x 8.7")		
Power Supply	115 VAC or 230 VAC, 50/60 Hz		
Temperature Control Range	25 - 40° C		
Premixed Gas Consumption	<2 L/h N/A		
Gas Pressure	0.4 to 0.6 bar		

ITEM CODE	MODEL CODE	DESCRIPTION
2070155	MRI-MINI-H-8	Mini MIRI® Humidified, 230V, 50/60Hz
2070156	MRI-MINI-H-9	Mini MIRI® Humidified, 115V, 50/60Hz
2070157	MRI-MINI-H-SS-8	Mini MIRI® Humidified with SAFE Sens for pH monitoring, 230V, 50/60 Hz
2070158	MRI-MINI-H-SS-9	Mini MIRI® Humidified with SAFE Sens for pH monitoring, 115V, 50/60 Hz
2070143	MRI-MINI-D-8	Mini MIRI® Dry, without Humidification, 230V, 50/60Hz
2070144	MRI-MINI-D-9	Mini MIRI® Dry, without Humidification, 115V, 50/60Hz
2070145	MRI-MINI-SS-D-8	Mini MIRI® Dry with SAFE Sens for pH monitoring, 230V, 50/60 Hz
2070146	MRI-MINI-SS-D-9	Mini MIRI® Dry with SAFE Sens for pH monitoring, 115V, 50/60 Hz

Inserts for MIRI® and Mi<u>ni MIRI®</u>



Extensive list of Inserts for MIRI® and Mini MIRI®

When ordering a MIRI® or a Mini MIRI®, you just have to pick the right insert/s that fit the dishes used in your laboratory. You have the freedom and flexibility to choose -- no limitations. The MIRI® and Mini MIRI® can easily fit-in to your existing work routine.

All inserts are optimized for the direct transfer of heat to the dishes and are totally removable for easy cleaning. This is to ensure optimal conditions for your embryos.



ITEM CODE	MODEL CODE	DESCRIPTION
1320003	TBA	Insert for Falcon® Dishes
1320004	TBA	Insert for Nunc TM Dishes
1320070	TBA	Insert for Vitrolife Dishes
1320099	TBA	Insert for Nipro™ Dishes
1320100	TBA	Insert for LifeGlobal® GPS Dishes
1320101	TBA	Insert Without Footprint for Plain Dishes
1320118	TBA	Insert for SparMED Oosafe®

CelCulture® CO₂ Incubators



The CO, Incubator has a vital role in providing an optimal environment in embryo development during IVF and other ART procedures. Sleek, reliable and intuitive, the Esco CelCulture® CO₂ incubator is packed with outstanding features such as rapid parameter recovery, ISO Class 5 Cleanliness, ISOCIDE™ antimicrobial coating, optional Inner Door Kit that reduces contamination risk, and other accessories for specialized applications.



CelCulture® CO. Incubators available in 3 sizes, 50 L, 170 L, and 240 L.

CelCulture® CO_ IncubatorsCelCulture® is equipped with 90°C Moist Heat Decontamination System evaluated by HPA-UK. It utilizes ULPA filter to keep the chamber at ISO Class 5 cleanliness which ensures that all contaminants are filtered and clean air is recirculated

Key Features

- Wider temperature range, from (ambient+3) temperature to 60°C
- Complete contamination control methods to protect your precious
- All gas inputs are filtered via 0.2micron in-line filter and ULPA filtration
- 90°C moist heat decontamination cycle, validated by HPA-UK.

ISOCIDE™



Voyager Software

PC-based software for remote monitoring, data logging and programming.



Floor Stand with **Adjustable Feet**

Nominal range of 180 mm to 250 mm (7.1" to 9.8")



Floor Stand with Casters

Support stand raises the incubator to a height of 700 mm (27.6") above the floor.



Roller Base

With casters for mobility of your

ITEM CODE	MODEL CODE	DESCRIPTION
IR Sensor Model with St	ainless Steel Chamber	
2170257	CCL-050B-8-IVF	CelCulture® Incubator, 50L, IR sensor, CO ₂ control, Moist Heat Decon, with Sealed Inner Door Kit for 50L (2 Glass Doors With Latches), Factory Installed, 230VAC, 50/60 Hz
2170272	CCL-170B-8-IVF	CelCulture® Incubator 170L IR Sensor, CO ₂ Control ULPA, Moist Heat Decon, with Sealed Inner Door Kit for 170L (4 Glass Doors With Latches), Factory Installed, 230VAC 50/60Hz
2170258	CCL-050B-9-IVF	CelCulture® Incubator, 50L, IR sensor, CO, control, Moist Heat Decon, with Sealed Inner Door Kit for 50L (2 Glass Doors With Latches), Factory Installed, 115VAC, 50/60 Hz
2170273	CCL-170B-9-IVF	CelCulture* Incubator 170L IR Sensor, CO ₂ Control ULPA, Moist Heat Decon, with Sealed Inner Door Kit for 170L (4 Glass Doors With Latches), Factory Installed, 115VAC 50/60Hz
Suppressed O ₂ Model w	ith Stainless Steel Chamb	er
2170260	CCL-050T-8-IVF	$\label{eq:cellculture} ^{0} \ \text{Incubator, 50L, IR sensor, CO}, \& O_{y} \ \text{control, Moist Heat Decon,} \\ \text{with Sealed Inner Door Kit for 50L (2 Glass Doors With Latches), Factory Installed, 230VAC, 50/60 Hz}$
2170275	CCL-170T-8-IVF	$\label{eq:continuous} CelCulture^{\alpha} Incubator 170L IR. Sensor, CO_{2} \& O_{3} Control ULPA, Moist Heat Decon, with Sealed Inner Door Kit for 170L (4 Glass Doors With Latches), Factory Installed, 230VAC 50/60Hz$
2170261	CCL-050T-9-IVF	CelCulture® Incubator, 50L, IR sensor, CO ₂ & O ₂ control, Moist Heat Decon, with Sealed Inner Door Kit for 50L (2 Glass Doors With Latches), Factory Installed, 115VAC, 50/60 Hz
2170276	CCL-170T-9-IVF	CelCulture® Incubator 170L IR Sensor, CO , & O , Control ULPA , Moist Heat Decon, with Sealed Inner Door Kit for 170L (4 Glass Doors With Latches), Factory Installed, 115VAC 50/60Hz

Esco Multi-Zone ART Workstation



The Esco Multi-Zone ART Workstation is the most advanced workstation in its class. It is designed for use in applications that require a high level of control over environmental conditions. Applications can range from animal embryo culture in research to human embryo manipulation done in fertility laboratories.



Multi-Zone Heating System

1 set point, 10 independent zones with their own heating elements and sensors allow excellent uniformity.

- Accuracy: ± 0.2 °C
- Uniformity: ± 0.2 °C

Low Noise, Low Vibration

Esco has a state-of-the art design and features resulting in very low noise and vibration level that makes the workstation suitable for sensitive microscopic work.

Superior Air Cleanliness

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



Microscope Integration Provision

Having an integrated stereomicroscope in the work chamber makes it possible to keep the culture dishes at the right temperature at all times while observation and manipulation are carried out.



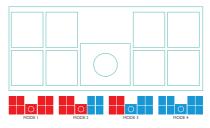
Surveillance System

Provides the user with real-time information of zone performance and other work area parameters such as gas pressure and flow rate.



Humidification System

Gas outlet is located on the table surface. The plastic cover encloses the humidified gas effectively and creates a small incubator environment.



Four Temperature Modes

Temperature Modes

- Mode 1: All zones are heated.
- Mode 2: Right zones turned off
- Mode 3: Right and middle zones turned off
- Mode 4: All zones turned off

Esco Multi-Zone Workstation with MIRI® Chambers



The workstation is now even better with its integrated MIRI® chambers to further secure your embryos while inside the workstation. The MIRI® incubator is popular for its top-notch features such as stable culture environment and faster parameter recovery.

Multi-Zone Heating System

The independent zones have its own heating elements and sensors

MIRI® Chambers

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



Support Stand Options

More options to choose from to meet your requirements.



Fit in the same MIRI® Inserts



Falcon®









SparMED Oosafe

Accessories











32 mm microscope pillar

Gas Mixer for MAW

- Support Stand:
 With leveling feet
- With Caster Wheels
- With Caster Wheels
 Motorized stand with Caster Wheels

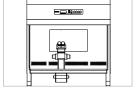
Esco Multi-Zone ART Workstation



Available in a variety of sizes and configurations to meet the needs of the laboratory

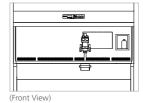
MAW-3D8

Width: 3 Feet Microscope: Single Basic Configuration 1 user For small laboratories



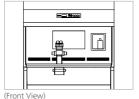
MAW-6D_ MONO

Width: 6ft Microscope: Single 1 user More space for other work.



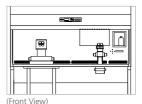
MAW-4D

Width: 4ft Microscope: Single Basic Configuration 1 user For small Laboratories



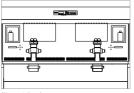
MAW-6D_-MP

Width: 6ft Microscope: Single Stereomicroscope, 1 Inverted microscope set-up



MAW-6D_-DUAL

Width: 6ft Microscope: Dual 2 users For efficient use of space

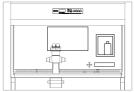


(Front View)

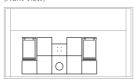


MAW-4D_-MC

Width: 4ft Microscope: Single 1 user For small Laboratories



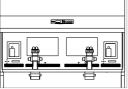
(Front View)



(Worktop View)

MAW-6D -DUAL-MC

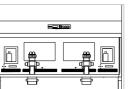
Width: 6ft MIRI® Chambers: 3 Microscope: Dual 2 users



(Front View)

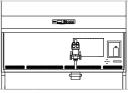


(Worktop View)

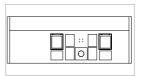


MAW-6D_-MONO-MC

Width: 6ft Microscope: Single MIRI® Chambers: 2



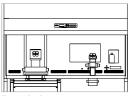
(Front View)



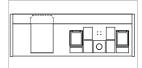
(Worktop View)

MAW-6D -MP-MC

Width: 6ft Microscope: Single Stereomicroscope, 1 Inverted microscope set-up MIRI Chambers: 2



(Front View)



(Worktop View)





Esco Multi-Zone ART Workstation Class II



during IVF procedures. It is especially designed in

Touch screen monitor

Heated Glass Stage



Muti-Zone Heating System



Microscope Integration



Fit in the same MIRI® Inserts



Nunc™



UV Kit

Falcon®



Vitrolife



LifeGlobal® GPS Dishes



Nipro™



SparMED Oosafe®

Accessories



Support Stand:

- With leveling feet
- With Caster Wheels
- · Motorized stand with Caster Wheels



Carbon Filter



32 mm microscope pillar



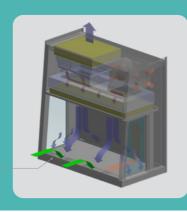
Gas Mixer for MAW

Class II Protection

Biological safety cabinet Class II which provides protection for the embryos, pametes, embryologists, and environment.

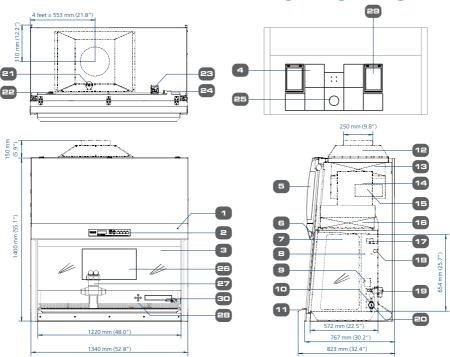
- ☐ ULPA-filtered air
- Unfiltered / potentially contaminated air
- Room air / Inflow air

Dynamic Air Barrier: where inflow and forward directed downflow air converge





Esco Class II Multi-Zone ART Workstation Engineering Drawing



- 1. Key Switch
- Esco Sentinel[™] Gold Microprocessor Control System
- 3. Laminated Glass Motorized Sliding Sash Window
- 4. Multi-Zone Heated Table Top (9+1 Zones)
- 5. Electrical Panel
- 6. Energy Efficient LED Lamps
- 7. Hole-free, Easy to Clean Side Tempered
- 8. IV Bar Retrofit Kit Provision

- Standard Electrical Outlet Retrofit Kit
 Provision
- Provision

 10. Service Fixture Retrofit Kit Provision
- 11. Stainless Steel Arm Rest
- 12. Exhaust Collar (Optional)
- 13. Exhaust H14 Filter (Optional U15)
- 14. DC ECM Downflow Blower
- 15. DC ECM Exhaust Blower
- 16. Downflow H14 Filter (U15 is Optional)
- 17. Downflow Sensor18. UV Lamp Provision
- 19. Optional Solenoid Valve

- 20. Optional Steris VHP / Bioquell HPV Port
- 21. Exhaust Sensor
- 22. Voltage Free Relay Contact
- 23. RS 232 Serial Interface Port (Optional RS 485 Communication Port)
- 24. Power Inlet
- 25. Integrated Heated Glass Stage
- 26. Touchscreen Monitor (AIO PC)
- 27. Provision for Microscope
- 28. Control Panel for Heated Table Top
- 29. MIRI® Chambers
- 30. LED Display

Esco Multi-zone Workstation



General Specifications: Esco Workstations

Model	MAW-3D8	MAW-4D_	MAW-6D_	MAW-6DDUAL	MAW-6DMP
Nominal Size	0.9 meter (3')	1.2 meter (4")	1.8 meter (6")	1.8 meter (6")	1.8 meter (6")
Work area dimension* (Width x Depth x Height)	955 x 500 x 710 mm (37.6" x 19.7" x 28.0")	1260 x 500 x 710mm (49.6" x 19.7" x 28")	1870 x 500 x 710mm (73.6" x 19.7" x 28")	1870 x 500 x 710mm (73.6" x 19.7" x 28")	1870 x 500 x 710mm (73.6" x 19.7" x 28")
Laminar air velocity		Avera	ge of 0.21m/s or 41 fpm (±	20%)	
Filter efficiency	>99.9	99% for particle size betwee	en 0.1 to 0.3 microns per IE	ST-RP-CC001.3 / H14 per EN	1822
Pre-filter		Disposable and non-wash	able polyester fibers with 8	5% arrestance / EU3 rated	
Noise level (per NSF 49)**	<48 dBa	47 dBA	52 dBA	52 dBA	52 dBA
Set of (9+1) heating zone	1 set	1 set	1 set	2 sets	1 set
Surveillance system	1 set	1 set	1 set	2 sets	1 set
Humidification system***	1 set	1 set	1 set	2 sets	1 set
PT 1000 ports	5 ports	5 ports	5 ports	10 ports	5 ports
Microscope	Position for 1 microscope	Position for 1 microscope	Position for 1 microscope	Position for 2 microscopes	Position for 1 microscope and 1 inverted microscope
Transmitted light source	1 set	1 set	1 set	2 sets	1 set
Shipping weight	195 kg	140 kg (308.6 lbs)	182 kg (401.2 lbs)	182 kg (401.2 lbs)	182 kg (401.2 lbs)

^{*} The actual MAW-6D_-MP's work area dimension will be customized to fit the inverted microscope.

General Specifications: Esco Multi-Zone ART Workstation (MAW) with MIRI® Chambers

	Model	MAW-4DMC MAW-6DMONO-MC		MAW6DDUAL-MC	MAW-6DMP-MC	
	Nominal Size	1.2 meter (4")	1.8 meter (6")	1.8 meter (6")	1.8 meter (6")	
Internal Work Area, Dimensions (W x D x H)		1260 x 500 x 710 mm (49.6 x 19.7 x 28.0")	1870 x 500 x 710 mm (73.6 x 19.7 x 28.0")	1870 x 500 x 710 mm (83.6 x 19.7 x 28.0")	1870 x 490 x 780 mm (73.6 x 19.3 x 30.7")	
	nsions without and (W x D x H)	1340 x 640 x 1300 mm				
External Dimensions with "B" type support stand (W x D x H)					1950 x 647 x 2220 mm (76.8 x 25.4 x 87.4")	
	Main Body	1.:	2 mm (0.05") 18 gauge electro-gal	vanized steel with white oven-bake	d	
Cabinet	Work Zone		1.2 mm (0.05") 18 gauge	stainless steel, grade 304		
Construction	Side Walls		Tempered Laminated Glass			
	Sash		(Optional: Polycarbonate sash fo	or MAW with built-in UV light)		
Lami	nar air velocity	Average of 0.21m/s or 41 fpm (± 20%)				
ULPA F	Filter efficiency	>99.999% for particle size between 0.1 to 0.3 microns per IEST-RP-CC001.3 / H14 per EN 1822			per EN 1822	
	Pre-Filter		Disposable, non-washable polyeste	r fibre, 85% arrestance, EU3 rated		
Set of (7+1)	heating zones	1	1	2	1	
Number of N	/IIRI® Chambers	2	2	3	2	
Includ	ded accessories	including tubing including tubing including tubing including tubing			1 x water bottle for HS-1, including tubing 1 x sample carry tray	
		Required, Not included (see microscope ordering information)				
	Microscope	Position for 1 microscope	Position for 1 microscope	Position for 2 microscopes	Position for 1 microscope and 1 inverted microscope	
	Support stand	Required, Not included (see support stand ordering information)				

^{**} Noise reading in open field condition / anechoic chamber. Noise reading in normal room varies by room size, layout, and background noise, but may reach roughly 3-4 dBA above these values.

^{***1} set of humidification system includes one (1) water bottle with tubing, one (1) sample carry tray and one (1) plastic cover.

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

<u> </u>		
Internal Work Area, Dimensions (W x D x H)		1220 x 580 x 654 mm (48.0 x 22.8 x 25.7")
External dimensions without support stand (W x D x H)		1340 x 823 x 1400 mm (52.8 x 32.4 x 55.1")
External Dimensions with "B" type support stand (W x D x H)		1340 x 640 x 2160 mm (52.8 x 25.2 x 85.0")
	Main Body	1.2 mm (0.05") 18 gauge electro-galvanized steel with white oven-baked epoxy-polyester lsocide™ antimicrobial powder-coated finish
Cabinet Construction	Work Zone	1.5 mm (0.06") 16 gauge stainless steel, type 304, with 4B finish
	Side Walls	T
	Sash	Tempered Laminated Safety Glass
Average Airflow	Inflow	0.48 m/s (95 fpm)
Velocity	Downflow	0.35 m/s (69 fpm)
Pre-Filter		Disposable, non-washable polyester fibre,85% arrestance, EU3 rated Optional, not included
ULPA Filter efficiency		>99.999% for particle size between 0.1 to 0.3 microns per IEST-RP-CC001.3 / H14 per EN 1822
	Set of (9+1) heating zones	1
	Number of MIRI® Chambers	2
	Microscope	Position for 1 microscope
Support stand		Required, Not included (see support stand ordering information)
Nominal Power Consumption (W)		175
Sound Emission per EN 12469*		49.6 dBA
Net Weight**		191 Kg (421 lbs)
Shipping Weight**		220 Kg (485)
Shipping Dime	nsions, Maximum (W x D x H)**	1100 x 880 x 1760 mm (43.3" x 34.6" x 69.3")

^{*}Noise reading in open field condition / anechoic chamber. Noise reading in normal room varies by room size, layout, and background noise, but may reach roughly 3-4 dBA above these values.

ITEM CODE	MODEL CODE	DESCRIPTION	
Esco ART Workstation Basic Configuration and Multi-Purpose			
2070177	MAW-3D8	Esco Multi-Zone ART Workstation, 3ft 3ft (0.91m), 230V 50/60Hz	
2070017	MAW-4D8	Esco Multi-Zone ART Workstation, 4ft (1.2m), 230V 50/60Hz	
2070025	MAW-4D9	Esco Multi-Zone ART Workstation, 4ft (1.2m), 110V 50/60Hz	
2070018	MAW-6D8-MONO	Esco Multi-Zone ART Workstation, 6ft (1.8m), 220V 50/60Hz	
2070026	MAW-6D9-MONO	Esco Multi-Zone ART Workstation, 6ft (1.8m), 110V 50/60Hz	
2070050	MAW-6D8-DUAL	Esco Multi-Zone ART Workstation, Double Heated Zone, 6ft (1.8m), 220V 50/60Hz	
2070039	MAW-6D9-DUAL	Esco Multi-Zone ART Workstation, Double Heated Zone, 6ft (1.8m), 110V 50/60Hz	
2070036	MAW-6D8-MP	Esco Multi-Zone ART Workstation, Multi-Purpose, 6ft (1.8m), 220V 50/60Hz	
2070038	MAW-6D9-MP	Esco Multi-Zone ART Workstation, Multi-Purpose, 6ft (1.8m), 110V 50/60Hz	
Esco ART Workstation wi	th MIRI® Chambers		
2070068	MAW-4D8-MC	Esco Multi-Zone ART Workstation, Miri® Chambers, 4ft (1.2m), 230V 50/60Hz	
2070070	MAW-4D9-MC	Esco Multi-Zone ART Workstation, Miri® Chambers, 4ft (1.2m), 110V 50/60Hz	
2070069	MAW-6D8-MONO-MC	Esco Multi-Zone ART Workstation, Miri® Chambers, 6ft (1.8m), 220V 50/60Hz	
2070071	MAW-6D9-MONO-MC	Esco Multi-Zone ART Workstation, Miri® Chambers, 6ft (1.8m), 110V 50/60Hz	
2070075	MAW-6D8-DUAL-MC	Esco Multi-Zone ART Workstation, Double Heated Zone, MIRI® Chambers, 6ft (1.8m), 220V 50/60Hz	
2070074	MAW-6D9-DUAL-MC	Esco Multi-Zone ART Workstation, Double Heated Zone, MIRI® Chambers, 6ft (1.8m), 110V 50/60Hz	
2070072	MAW-6D8-MP-MC	Esco Multi-Zone ART Workstation, Multi-Purpose, MIRI® Chambers, 6ft (1.8m), 220V 50/60Hz	
2070073	MAW-6D9-MP-MC	Esco Multi-Zone ART Workstation, Multi-Purpose, MIRI® Chambers, 6ft (1.8m), 110V 50/60Hz	
Standard unit with MII	RI® Chambers		
2070141	MAW-4D8-MC-Class II	Esco Class II Multi-Zone ART Workstation, MIRI® Chambers, 4ft (1.2m), 230V 50/60Hz	

dBA above these values.

**Cabinet only, excludes optional stand.

Semi-Closed Environment





Maximum performance and Quality Control of your procedures

Semi-Closed Environment (SCE) takes the controlled environment from your incubators to previous procedures in the laboratory workflow. We believe that maximum control of the environment throughout the entire ART procedure is beneficial and will lead to better outcome.

With the SCE product line, you can now perform microscopy and IVF with a stable, controlled and monitored ${\rm CO_2}$ and temperature, inside the working area.

Key Benefits of both systems:

- 3 incubator compartments with access from the front (inside the working area) and from the back (outside the working area).
- Pre-installed stereomicroscope or micromanipulator (based on your requirements).
- Heated zones on the work area.

- CO₂ controlled environment separately monitored in the working area and the 3 incubator compartments.
- VOC filtering of the air in the incubators and the large working area.
- Data Logger software with full insight of temperature and gas conditions.

General Specifications

780 x 700 x 590 mm (30.7 x 27.6 23.2")
115 - 230 VAC, 50/60 Hz
250 Watts
220 Watts
25 – 40°C
<2 L/h (for compartments) <10 L/h (for working area)
2 – 9.9 %
0.6 bar (8.7 psi)
Stainless Steel Tabletop
MS-1 or Nikon SMZ800N (Available only these two scopes)
70 kg
80 kg
850 x 726 x 1000 mm (33.5 x 28.6 x 39.4")

^{*} Under normal condition (CO₂ set point reached at 5.0%, all lids closed)

ITEM CODE	MODEL CODE	DESCRIPTION
2070093	SCE-Stereo with MS-1 Microscope	Semi-Closed Environment, with MS-1 Esco Microscope, 230V 50/60Hz
2070094	SCE-Stereo with MS-1 Microscope	Semi-Closed Environment, with MS-1 Esco Microscope, 115V 50/60Hz
2070095	SCE-Stereo with Nikon SMZ800	Semi-Closed Environment, with Nikon SMZ800 Microscope, 230V 50/60Hz
2070096	SCE-Stereo with Nikon SMZ800	Semi-Closed Environment, with Nikon SMZ800 Microscope, 115V 50/60Hz

^{**} Under normal condition (O₂ set point reached at 5.0%, all lids closed)

Anti-Vibration Table





The Anti-Vibration Table (AVT) features an anti-vibration mechanism for passive dampening of the microscope. This is mainly used for *In Vitro* Fertilization (IVF) or Intra-Cytoplasmic Sperm Injection (ICSI) procedures. Exclusively designed in Denmark and made in E.U., the stainless steel table and sturdy frame add mass to the anti-vibration table. AVT-1 is constructed to be easy-to-use and almost maintenance-free.

Key Features

- Anti-vibration mechanism for passive dampening
- Sturdy frame
- Stainless steel table with elegant glass design
- Range (HZ) vibration could be eliminated while using this AVT: 5.5-50Hz

General Specifications

Overall Dimensions	1200 x 800 x 800 mm (47.2 x 31.5 x 31.5")
Net weight	114 kg (251.3 lbs)
Material	Powder-painted mild steel, Stainless steel and glass
Float Dimension (W x D)	540 x 340 mm (21.3 x 13.4")

ITEM CODE	MODEL CODE	DESCRIPTION
1320054	AVT-1	Anti-Vibration Table



Versati[™] Tabletop Centrifuge Refrigerated





Versati[™] Tablotp centrifuge refrigerated model TCR stand out among the same level products with their versatility, running features and easy handling. It can be use 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 ad-justable 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

Overview of Models Versati™ Micro Centrifuge



Model: MCV-88

- Maintenance-free brushless motor
- Superior safety
- Audible and visible alarms
- Up to 88 ml capacity



Model: MCR-88

- Maintenance-free brushless motor
- Superior safety
- Temperature Range: -20°C to 40°C
- Up to 88 ml capacity

Versati™ Tabletop Centrifuge



Model: TCV-1500

- Maintenance-free brushless motor
- Superior safety (Automatic rotor recognition)
- · Audible and visible alarms
- Up to 1500 ml capacity



Model: TCR-1500

- Maintenance-free brushless motor
- Superior safety (Automatic rotor recognition)
- Temperature Range: -20°C to 40°C
- Up to 1500 ml capacity

Options and Accessories



General Accessories for Versati™ Micro Centrifuge



Aerosol-tight Fixed-angle Rotor

This *TÜV Nord Certified Bioseal Rotor* is used for 1.5/2.0 ml tubes. Adapters are used to run 0.5 ml and 2.0 ml / 0.4 ml PCR tubes.



Microhematocrit Rotor

Rotor ideal for medical field in the determination of hematocrit value through its circular reader accessory. This rotor can only be used in MCV model.



Fixed-angle Rotor

Aluminum rotor used for 5 ml conical tubes. Adapters are also used in this rotor to run 1-1.8 ml Cryo tubes and 1.5 ml / 2.0 ml PCR tubes.



Fixed-angle Rotor for PCR Strips

Rotor made of polypropylene used for $4 \times 8 (0.2 \text{ ml})$ PCR strips.

Note: There are a total of 6 rotor options for MCR, 7 rotor options for MCV, and 5 available adapters for both models.

General Accessories for Versati™ Tabletop Centrifuge



Swing-bucket Rotor

Aluminum swing-bucket rotor with circular flatbottom buckets made of polypropylene can hold up to 4 x 250 ml tubes. It has flexible adapters ideal for medical and biotechnology laboratories.



Fixed-angle Rotor

The maximum capacity of this fixed-angle rotor is 6 x 250 ml. It can also run tubes ranging from 1.5/2.0 ml to 50 ml using suitable adapters.



Microtiter Plate Rotor

This microtiter plate rotor has a maximum capacity of up to 6 plates. This can also accommodate deep well plate, culture plate, microtest/ terasaki plate, microsonic system, and PCR well plate.



Aerosol-tight Fixed-angle Rotor

This TÜV Nord Certified Bioseal Rotor used for 1.5/2.0 ml tubes is also available in tabletop centrifuge models. Adapters are used to run 0.5 ml and 2.0 ml / 0.4 ml PCR tubes.

Note: There are a total of 12 rotor options for TCV/ TCR and 47 available adapters for both models.

Ordering Information

Guide to Models

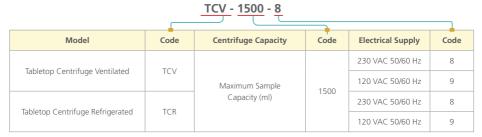
MCV - 88 - 8					
Model	Code	Centrifuge Capacity	Code	Electrical Supply	Code
Mine Contribute Vantileted	NACY (230 VAC 50/60 Hz	8
Micro Centrifuge Ventilated	MCV	Maximum Sample Capacity (ml)	0.0	120 VAC 50/60 Hz	9
	MCR		88	230 VAC 50/60 Hz	8
Micro Centrifuge Refrigerated				120 VAC 50/60 Hz	9

MCV / MCR High Speed Micro Centrifuge for up to 15,000 rpm

Designed to accelerate your routine sample preparation processes.

Model Code	Item Code	Description	
MCV - 88 - 8 2220001		Micro Centrifuge Ventilated 230 VAC, 50/60 Hz	
MCV - 88 - 9	2220002	Micro Centrifuge Ventilated 120 VAC, 50/60 Hz	
MCR -88 -8	2220003	Micro Centrifuge Refrigerated 230 VAC, 50/60 Hz	
MCR -88 -9	2220004	Micro Centrifuge Refrigerated 120 VAC, 50/60 Hz	

Guide to Models



TCV / TCR High Speed Tabletop Centrifuge for up to 16,000 rpm

Ideal for multi-purpose centrifugation at high-speed.

Model Code	Item Code	Description	
TCV-1500-8 2220005		Tabletop Centrifuge Ventilated 230 VAC, 50/60 Hz	
TCV-1500-9	2220006	Tabletop Centrifuge Ventilated 120 VAC, 50/60 Hz	
TCR-1500-8 2220007		Tabletop Centrifuge Refrigerated 230 VAC, 50/60 Hz	
TCR-1500-9	2220008	Tabletop Centrifuge Refrigerated 120 VAC, 50/60 Hz	

Contact Esco or your local Sales Representative for ordering information

Quality Assurance and Validation Units





MIRI® GA Gas and Temperature Validation Unit

MIRI® GA is a tabletop device intended to make external incubator validation easier and safer. It is capable of monitoring the temperature (PT1000 connector) & gas concentration, flow and pressure. It can validate up to 6 chambers simultaneously 24 hours a day. It also has an adjustable flow rate which gives it the ability to properly sample small volume incubation chambers. Moreover, MIRI® GA comes with a full Data Logger software which is helpful in monitoring each parameter. The MIRI® GA can connect to any brand of incubator and is a perfect accessory to MIRI® TL and MIRI® Multiroom Incubators.

Key Features

- Constantly validate up to 6 x CO₂
 / O₂ incubators
- CO₂ / O₂ incubators controllable flow rate Monitor up to 6 x

PT1000 sensors

- 6 ports for sequential gas samples
- Gas feedback returns sampled gas to incubator or exhaust

General Specifications

Input ports	6 x PT1000 ports for temerature monitoring 6 x gas sampling ports
Output ports	1 x gas feedback port, 1 x USB port
Shipping dimensions and weight	440mm x 430mm x 240mm (17.3" x 16.9" x 9.4"), 15kg (33.1lbs)

Ordering Information*

ITEM CODE	MODEL CODE	DESCRIPTION
1320045	ТВА	MIRI® GA CO_2 / O_2 / Temp validation Unit, 115/230V, 50/60Hz

^{*} Includes data logger software, 1pc PT1000 cable, 1pc Gas connection tube, 1pc Gas feedback tube

Accessories

ITEM CODE	MODEL CODE	DESCRIPTION
1320063	MRA-1101	1pc PT1000 cable
1320064	MRA-1102	Set of 6pcs PT1000 cables
1320065	MRA-1103	1pc Gas connection tube
1320066	MRA-1104	Set of 6pcs Gas connection tubes

SAFE Sens



Continuous pH Monitoring

Worry-free pH monitoring of your Esco incubators

SAFE Sens (Sterile, Automated Fluoroscopic Evaluation) offers fast, effective, and non-invasive continuous pH monitoring product for in vitro fertilization (IVF) procedures.

The SAFE Sens technology employs an optical fluorescent measurement technology, used in combination with disposable sensors, which accurately and reliably monitors the pH of small volumes of fluids such as the media used in IVF.



*Factory-installed. No option yet to install on-site for

**SAFE Sens is a trademark brand of Blood Cell

previously ordered MIRI®

Storage, Inc. (BCSI)

Order SAFE Sens with your new MIRI® and Mini MIRI®*

Key Features



Continuous pH measurement

- Reading and recording every 30 minutes (default setting adjustable).
 Single use sensor probe for up to seven (7) days of pH readings.
- Easy-to-implement
 - Easy-to-align (no buffers, no hassles).
 - · Easy-to-use and maintain.



Data Logging System

- Data Logging and user alarms.
- Each TrakStation® can be connected to multiple incubators.



Compact and Efficient

No more unnecessary openings of your incubator for spot pH measurement.

Ordering Guide for SAFE Sens

Step1: Choose the correct electrical rating for each equipment.

ITEM CODE	MODEL CODE	DESCRIPTION		
MIRI® TL6				
2070098	MRI-TL-MN-6C-SS-8	MIRI® Time-Lapse Incubator, Mini, 6 chambers with SAFE Sens, 230 V, 60/60 Hz		
2070099	MRI-TL-MN-6C-SS-9	MIRI® Time-Lapse Incubator, Mini, 6 chambers with SAFE Sens, 115 V, 60/60 Hz		
MIRI® TL12				
2070100	MRI-TL-12C-8	MIRI® Time-Lapse Incubator, 12 Chambers, 230 V, 50/60 Hz		
2070101	MRI-TL-12C-9	MIRI® Time-Lapse Incubator, 12 Chambers, 115 V, 50/60 Hz		
MIRI®				
2070086	MRI-6A10-SS-8	MIRI® Incubator, with SAFE Sens for pH measurement, 230V, 50/60Hz		
2070087	MRI-6A10-SS-9	MIRI® Incubator, with SAFE Sens for pH measurement, 115V, 50/60Hz		
Mini MIRI®				
2070078	MRI-MINI-SS-8	Mini MIRI® Incubator, with SAFE Sens for pH measurement, 230V, 50/60Hz		
2070079	MRI-MINI-SS-9	Mini MIRI® Incubator, with SAFE Sens for pH measurement, 115V, 50/60Hz		

Step 2: Order the SAFE Sens Accessories.*

ITEM CODE	MODEL CODE	DESCRIPTION
1081277	TBA	SAFE Sens SV2 Sensor, Pack of 10 pieces (shelf-life 12 months)
1081278	TBA	SAFE Sens QC2 Alignment Tool
1320191	TBA	SAFE Sens TrakStation, a tablet with SAFE Sens Software, for pH monitoring.

^{*}Notes: (1) One QC2 alignment tool can be used on all incubators. If incubators are located in separate rooms, you may have to order more than one QC2 tool.

Step 3: Choose Heat Optimization Plate. Only one chamber has the SAFE Sens installed so order only one (1) plate that has a hole for the SAFE Sens. See guide below.

No Heat Optimization Plate needed for MIRI® TL



Note: Heat plates should only be ordered for MIRI® and Mini MIRI®.

ITEM CODE	MODEL CODE	DESCRIPTION		
Heating Plates with No Hole				
1320003	TBA	Insert for Falcon® Dishes		
1320004	TBA	Insert for Nunc™ Dishes		
1320070	TBA	Insert for Vitrolife Dishes		
1320099	TBA	Insert for Nipro™ Dishes		
1320100	TBA	Insert for LifeGlobal® GPS Dishes		
1320101	TBA	Insert Without Footprint for Plain Dishes		
1320118	TBA	Insert for SparMED Oosafe®		

MODEL CODE	DESCRIPTION			
Heating Plates with Hole for SAFE Sens				
TBA	Insert for Nunc $^{\rm TM}$ Dishes, with hole for SAFE Sens			
TBA	Insert for Vitrolife Dishes, with hole for SAFE Sens			
TBA	Insert for Nipro $^{\rm TM}$ Dishes, with hole for SAFE Sens			
TBA	Insert for LifeGlobal® GPS Dishes, with hole for SAFE Sens			
TBA	Insert Without Footprint for Plain Dishes, with hole for SAFE Sens			
TBA	Insert for SparMED Oosafe®, with hole for SAFE Sens			
TBA	Insert for Falcon® Dishes, with hole for SAFE Sens			
	Hole for SAFE Sens TBA TBA TBA TBA TBA TBA TBA TB			

⁽²⁾ QC2 Alignment tool and SV2 sensors have an expiration date of one (1) year.

⁽³⁾ The MIRI® with SAFE Sens automatically comes with free one (1) pack of SV2 sensors, which is to be used for Site Standardization. Please determine how many additional packs you need for routine pH testing. Put into consideration that the sv2 sensor has one year expiration date. See page 5 for stock-keeping matrix

⁽⁴⁾ One TrakStation can connect up to eight (8) incubators by using a USB 3.0 Hub. Determine how many PC tablets you need.

⁽⁵⁾ The Esco data logger should be installed separately on another Windows PC/ tablet. Please see page 5 for the minimum requirements.

ESCO GLOBAL NETWORK





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

Semi-Closed Environment IVF

CelCulture® CO₂ Incubator

MIRI® GA (Gas and Temperature Validation Unit)

Anti-Vibration Table (AVT)

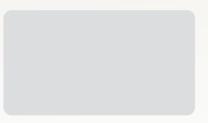
 ${\sf Versati}^{\sf TM} \; {\sf Tabletop} \; {\sf Centrifuge} \; {\sf Refrigerated}$

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

Esco Medical is one of the divisions of the Esco Group of Companies. 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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Esco Global Offices: Bangladesh | China | Denmark | Germany | Hong Kong | Indonesia | Italy | Lithuania | Malaysia | Myanmar | Philippines | Russia | Singapore | South Africa | South Korea | Taiwan | Thailand | UAE | UK | USA | Vietnam



















Designed in Denmark

Made in the E.U.