



Fertilisafe™
Multi-Zone
ART Workstation



Designed in Denmark





Advanced workstation specially designed for Assisted Reproductive Technology (ART) such as gamete or embryo manipulation during IVF

High-tech components and features are designed in Denmark and made in Esco's production facilities in Europe.

The workstation keeps true to Esco's world class expertise and quality in cleanroom technology.

Fertilisafe™ Multi-Zone Workstation

is at the top of its class with a complete set of advanced features:

“The Esco Fertilisafe™ has provision for selected common stereomicroscopes”

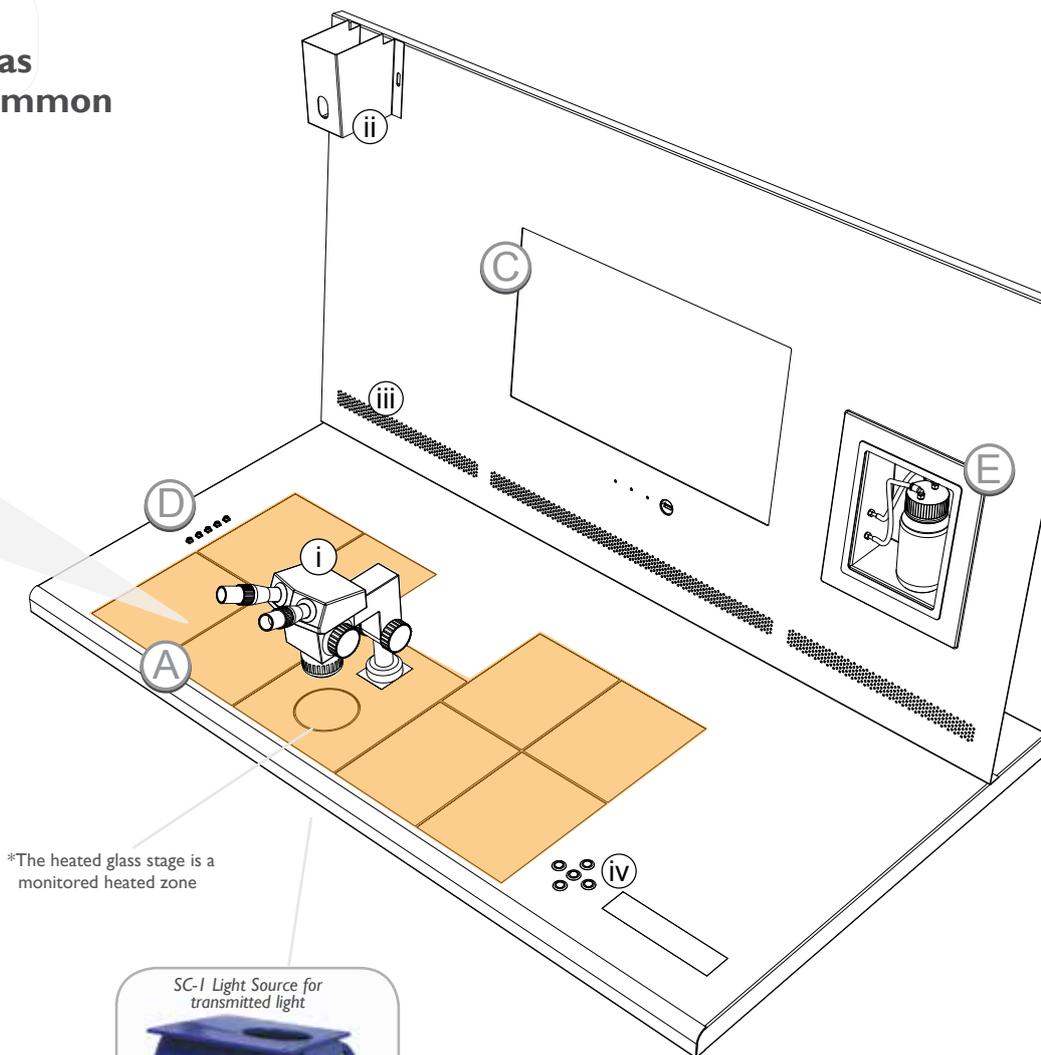
- i - Integrated stereomicroscope
- ii - Airflow velocity sensor
- iii - Auto-purge slots
- iv - Control panel for table plate

9+1* Multi-Zone heated table plate is the most advanced system available anywhere.

Smart power injection of heating zones ensures effective temperature control with fast recovery.

Humidification System

- Enables complete environmental control of samples
- Digitally-controlled flow valves
- Gas outlet port is located on the table surface and a plastic cover contains the samples kept under humidified conditions.

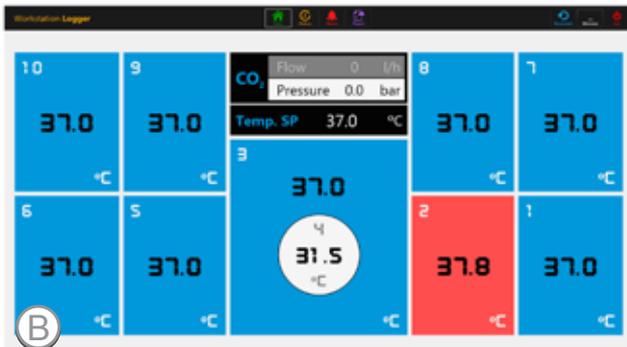


*The heated glass stage is a monitored heated zone

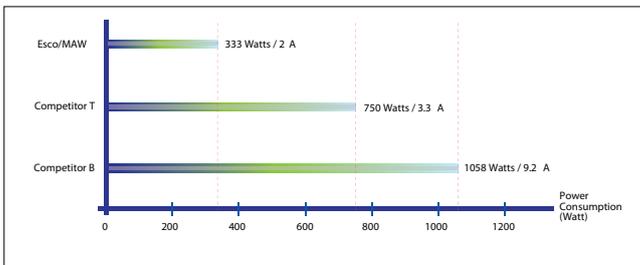


- ⬢ Vertical laminar airflow providing sample protection
- ⬢ Low noise energy-efficient EC fans
- ⬢ Low vibration resulting from built-in dampers
- ⬢ Provision for integration of most common microscopes
- ⬢ Integrated heated glass stage
- ⬢ Integrated SC-1 light source with dual-sided mirror and intensity control knob
- ⬢ Selection of cabinet support stands
- ⬢ Selection between 4ft. (single) and 6ft. (single or dual) models

- Ⓐ Advanced Multi-Zone table plate (9 + 1 zones)
- Ⓑ Surveillance system running data logger software
- Ⓒ Touchscreen monitor (AIO PC)
- Ⓓ PT1000 temperature validation ports
- Ⓔ Humidification system with digital flow control of pre-mixed gas



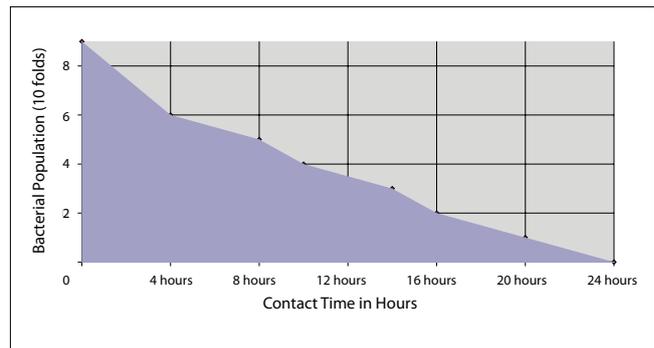
Surveillance System provides the user real-time information of zone performance and other work area parameters such as gas pressure and flow rate.



Energy Efficient Chart

Esco ART workstations utilize extremely efficient EC fans, allowing for exceedingly low levels of cabinet power consumption that is unparalleled in the industry.

The result is greater cost-savings for the user with no compromise in cabinet performance.



Built-In Protection

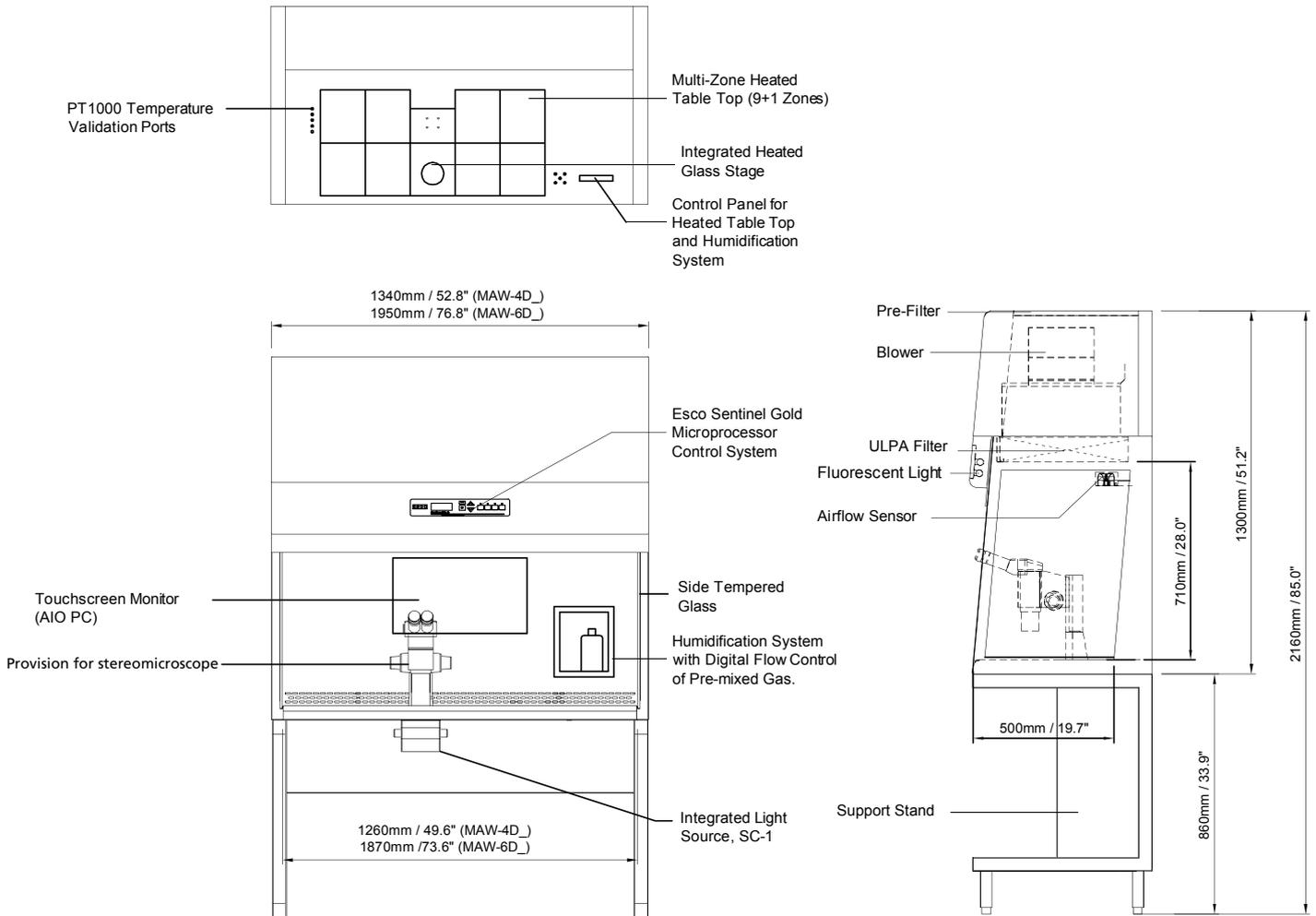
External surface are powder coated with Esco **ISOCIDE™** to eliminate 99.9% of surface bacteria within 24 hours of exposure.

Air Cleanliness Standards (ISO 14644-1, Air Cleanliness Particle Limits) (No. of Particles / m ³)						
Particle Size (µm)	Cleanliness Class					
	Class 1	Class 2	Class 3	Class 4	Class 5	Class 6
0.1	10	100	1000	10000	100000	1000000
0.2	2	24	237	2370	23700	237000
0.3	-	10	102	1020	10200	102000
0.5	-	4	35	352	35200	352000
1.0	-	-	8	83	835	8320
5.0	-	-	-	-	29	293

Superior Air Cleanliness

Esco cabinets provide ISO Class 3 air cleanliness within the work zone as per ISO 14644.1°, significantly cleaner than the usual Class 4 classification offered by the competition.

Fertilisafe ART Workstation (MAW) Technical Specifications



Ordering Information

CODE	DESCRIPTION
MAW-4D9	Esco Multi-Zone ART Workstation, 4ft. (1.2M), 110V, 50/60Hz
MAW-4D8	Esco Multi-Zone ART Workstation, 4ft. (1.2M), 220V, 50/60Hz
MAW-6D9 - SINGLE/DUAL/MP	Esco Multi-Zone ART Workstation, 6ft. (1.8M), 110V, 50/60Hz
MAW-6D8 - SINGLE/DUAL/MP	Esco Multi-Zone ART Workstation, 6ft. (1.8M), 220V, 50/60Hz

MICROSCOPE PROVISION CODE	DESCRIPTION	6FT MAIN BODY SUFFIX explanation
NIKONCPSNULL	Nikon C-PS	SINGLE - Single stereomicroscope provision DUAL - Dual stereomicroscope provision MP - Stereomicroscope + Inverted microscope/micromanipulator (i.e., antivibration zone for ICSI) provision
NIKONCPS160	Nikon C-PS 160	
OLYMPUSSZ(X)ST	Olympus SZX-ST	
OLYPMUSSZ(TWO)ST	Olympus SZ2-ST	
ZEISSTANDN	Zeiss stand N	
ESCOSCOPE	Esco stereomicroscope MS-1	

SUPPORT STAND CODE	DESCRIPTION
SMC-4AO	4ft. MAW support stand with castor wheels, overall height 711mm
SMC-6AO	6ft. MAW support stand with castor wheels, overall height 711mm
SML-4AO	4ft. MAW support stand with leveling feet, overall height 711mm
SML-6AO	6ft. MAW support stand with leveling feet, overall height 711mm
SMC-4BO	4ft. MAW support stand with castor wheels, overall height 860mm
SMC-6BO	6ft. MAW support stand with castor wheels, overall height 860mm
SML-4BO	4ft. MAW support stand with leveling feet, overall height 860mm
SML-6BO	6ft. MAW support stand with leveling feet, overall height 860mm

General Specifications

SPECIFICATION	MAW-4D_	MAW-6D_	MAW-6D_-DUAL
Work area dimensions (width x depth x height)	1260 x 500 x 710mm	1870 x 500 x 710mm	
External dimensions without support stand (width x depth x height)	1340mm x 640mm x 1300mm	1950mm x 640mm x 1300mm	
External dimensions with "B" type support stand (width x depth x height)	1340mm x 640mm x 2160mm	1950mm x 640mm x 2160mm	
Laminar airflow velocity	Average of 0.21m/s or 41 fpm (+/-20%)		
Filter efficiency	Minimum: 99.9991% at 0.3 µm / 99.9985% at 0.12 µm / 99.9982% at MPPS Typical: 99.9998% at 0.3 µm / 99.998% at 0.12 µm / 99.9987% at MPPS		
Noise level (As per IEST)	≤47 dBa	≤48 dBa	
Pre-filter	Disposable and non-washable polyester fibers with 85% arrestance / EU3 rated		
Heating system	Smart power injection electrical heating, 9+1 zones	Smart power injection electrical heating 2 x (9 +1) zones	
Temperature accuracy	±0,2 C		
Temperature uniformity	±0,2 C		
Included advanced features	Integrated humidification system HS-1 Surveillance system with data logger AIO PC Heated glass stage Transmitted light source SC-1 (with bulb) 5 x PT1000 validation ports	Dual Integrated humidification system HS-1 Surveillance system with data logger AIO PC 2 x Heated glass stage 2 x Transmitted light source SC-1 (with bulb) 10 x PT1000 validation ports	
Included accessories	1 x water bottle for HS-1, including tubing 1 x sample carry tray 1 x humidified gas plastic cover	2 x water bottle for HS-1, including tubing 2 x sample carry tray 2 x humidified gas plastic cover	
Microscope provision	Included for 1 microscope	Included for 2 microscopes	
Microscope	Required, Not included (see Microscope ordering information)		
Support stand	Required, Not included (see Microscope ordering information)		

GLOBAL NETWORK



 Global Offices
 Distributors



Esco Medical Product:
 ART Workstations
 Upright CO₂ Incubators
 Bench Top Incubators
 Time Lapse Incubators

Infertility is viewed as a problem that has social, psychological, and economic impacts to the afflicted individuals and couples. It is a global concern that knows no race nor creed. It has been estimated that 1 in 6 couples would struggle with infertility at least once in their lifetime.

The vision of Esco Medical is to support Assisted Reproductive Technologies (ART), such as IVF, by developing practical and state-of-the-art technological solutions for improving clinical success rates and patient satisfaction. All Esco Medical products are designed with the IVF clinic in mind and developed 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.

It is on these foundations that Esco Medical remains committed to providing world class ART, worldwide. At Esco Medical, life has begun.



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