

SMART STATION

— Simple, Mobile, ART Station —



- Adapts to several stereomicroscopes makes and models (Olympus, Nikon, etc.)
- Optional 2.5kg CO₂ tank holder is also available.
- Stereomicroscope camera, monitor and video recording system available as optional equipment.
- Stereomicroscope is not included but available upon request.

Please note that only products are subjected to warranty. Any loss or damage caused by products failure are not compensated.



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Smart Station

ASTECC Smart Station is an integrated IVF Work Station, which substantially enhances the working environment for IVF procedures. Oocyte retrieval, fertilization check, embryo development evaluation, preparation for embryo transfer and general gamete/embryo handling are among some of the tasks that can be easily and comfortably performed. The Smart Station is very ergonomic allowing its operation with reduce stress, fatigue and increase comfort.



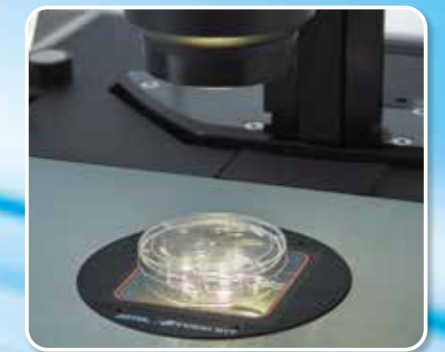
Large Doors

The system is equipped with two front and two large side doors. The front doors have adjustable circular openings to minimize exposure to ambient air at the time of chamber use. The Station is also easy to clean and disinfect exposing the working surface opening both front doors simultaneously.



Flat Working Stage

The working stages include individual temperature control. The central warm plate and the two side stages are designed with convenience in mind. A culture dish can be slid across the stage without lifting it. A knob is installed on the stage for easy stereomicroscope operation.



Clear Warm Plate

The central stage includes a clear plate warmer installed over the stereomicroscope base. This provides a very stable temperature control using the same system utilized in the ASTEC integrated bio-stations which has been proven for many years. The plate white finish also allows for an easy reading of the dish label.

Features

1 HEPA Filter (Optional VOC Filter)

A built-in HEPA filter installed in the air outlet keeps high cleanliness of the air inside the work chamber.

2 Individual Temperature Control

The Smart Station includes four individual, operator-driven, temperature controllers. A plate warmer, right and left working stages, and the station chamber

3 CO₂ Concentration Control

A precise CO₂ control inside of chamber is obtained with the use of CO₂ infra-red (IR) sensor. This allows a consistent and stable culture media pH stability when using sodium bicarbonate buffered culture systems.

4 Power Lift Function

The motorized stand is easy to adjust to your preferred working height. This function allows for optimum body posture. Either sitting or standing, you can work in a comfortable position.

5 Mobility

The Station is equipped with large casters with double wheels making it easy for anyone to transport it between the laboratory and egg retrieval room.

6 Maintenance

A weekly alert timer is built-in for easy maintenance. Programmable system ON within 7 days.

Control Panel



● Individual Temperature Control

The Station allows to individually control the temperature on right, left stages, central plate and the air of the chamber. Very fast temperature recovery. Safe to use 30 minutes after the Station is ON.

● CO₂ Control

Infrared (IR) CO₂ sensor technology proven in our incubator line. Easy CO₂ level setting by an UP/DOWN touch key



● Timer Function

Maintenance Alert timer. Automatic turn ON programmable within 7 days

● Variable Air Speed

The Station includes a variable controller for air speed (0 to 0.5m/sec). Air volume is displayed in the control display

Power Lift Controller



Lifting 250mm at max is available by UP/DOWN touch key on power lift controller

Specification

Model	SS-250
Dimension (mm/in)	W840×D620×H1190-1440/ W33.07×D24.40×H46.85-56.69
Work Space (mm/in)	W826×D420×H350/W32.52×D16.54×H14
Door Aperture (mm/in)	W310×H225/W12.20×8.86
Stage Height (mm/in)	840-1090/33.07-42.91 (250/9.84 lifting)
Temp. Control Point	Plate warmer, right and left stage and a chamber
Timer Switch	Power ON Timer within 1 week
Warm-up time	30 min
Wattage	500W (120W at 37deg C stable operating)
Power	AC110/220V 50/60Hz
Weight	80kg(176.416lb)*stereomicroscope excluded
Plate Warmer/Stage	
Temp. range	±0.3 deg C
Temp. Distribution	±0.5 deg C

Model	SS-250
Work chamber	
Temp. control range	Room temp., +5-40 deg C
Temp. range	±0.5 deg C
Temp. Distribution	±1 deg C
CO ₂ Control range	0-10.0%
CO ₂ Concentration range	0.2%
CO ₂ Consumption	170L/day (2.5kg tank, approx. 7 days) 44.91 U.S. gal./day (5.512lb tank, approx. 7 days)
Air Control	
Dust collection efficiency	99.99% and more(0.3µmPAO)
Air Speed	0-0.5m/sec variable
Ventilation	approx. 200/h @0.5m/sec WS

*Specification data is measured at 25 deg C, room temp.