



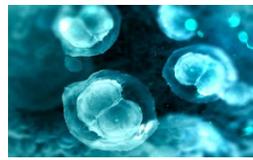
**DARSUN**  
SCIENTIFIC

## IVF WORK STATION Biological Safety Cabinets



**ONE STOP**  
*Innovative solution*

# FEATURES



## TECHNICAL DETAILS

Superior ergonomic design & styling  
negative pressure double-wall housings for containment  
The work table of station made up of stainless steel SS304 grade with Glass heating stage both sides. The thermostat accuracy of +/- 0.30 C.  
all stainless steel work zone construction with radiused & crevice-free corners  
spacious work zone interior  
The workstation constructed with mild Steel coated with rust resistant epoxy powder coated.  
The cabinet noise level less than 63 dB(A) for a 4 feet.  
Side Flexi Glass:- both side PC glass window.  
smooth & effortless sliding tempered glass window, closes completely  
THERMOFOIL HEATING SYSTEM for accurate & reliable thermal control of the worktop  
2 Nos .Heating Area on work Table: Three side heating arrangement (Both side of stage Heating).  
The cabinet automatically reduce fan/blower motor speed to 30% when the front window sash is in a closed position .  
ISO Class 5 (Class 100) air cleanliness work zone for absolute product protection  
ZERO-LEAK airflow system for enhanced safety  
8 Extra Universal sockets  
UV light programmable to allow for specific exposure times from 0 to 24 hours. Allows customized sterilization cycles for enhanced biosafety.  
UV Germicidal Light integrated to the biosafety cabinet.  
The automatic shut off feature on the UV light saves money on replacement of the bulbs.  
reliability-proven design & performance  
Leveling Pad Workstation antivibration leveling adjustable legs.  
The cabinet uses a pressure sensor to detect pressure drop across the supply filter, rather than in just one point across the down flow.  
The pressure sensor encased in order to protect the sensor from temperature, humidity and other environmental phenomena that can impact the sensor's performance.  
An automatically adjust the airflow speed without the use of a damper.  
The exhaust blower on the cabinet continue operating when the supply blower stops working.  
Prevents backflow contamination and maintains negative pressure in case of supply blower failure.  
The biological safety cabinet capable of achieving current state-of-the-art in energy efficiency.  
A biological safety cabinet with lights on and fan at operating speed consume less than 200 watts for a nominal four feet width and have a reduced energy mode for non-operational maintenance on containment in the work area.

## MICROPROCESSOR CONTROLLER

Saves energy and extends motor lifespan while maintaining safety.  
advanced PID microprocessor controls  
An extra feature if main temperature controller will not work safety controller Active Automatically.  
Provides backup safety mechanism.  
Microprocessor base Digital Temperature controller cum Indicator dual display and with auto tune temperature set and with temp. calibration function.  
Control Panel: (Soft touch Keys) Provides easy and reliable control.  
2 Nos. LED 19", Screen with onsite warranty provides clear visualization for analysis.  
5 step air flow control Microprocessor-controlled diagnostic system with digital display & audible alarm  
Indication alarm when main filter need to change.  
hourmeter  
delayed-automatic-off timer  
elapsed / event timer  
Independent on/off of each parameters.  
automatic/selectable boost mode for increased containment

## FILTER

Main Filter "HEPA" H-15 & Class -100 with air-borne Particles count 0.3 Micron and with efficiency of 99.99% with cold DOP and 99.97% with hot DOP Test  
Uses Activated Carbon Filter, Helps in the removal of chemical fumes and odors.  
Pre Filter fiber cloth 10 micron captures large particles to extend HEPA filter life.  
Air Pressure Analogue Gauge Monitors airflow conditions.  
Filter Life Timer with Alarm system to indicate need to change filter

**OPTIONAL**

- ❖ 18 inch Lcd monitor
- ❖ Analyse software
- ❖ Heating stage

## MOTOR BLOWER

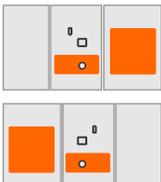
Brush less Imported Blower noise free and 0% Vibration for ease of microscopic work.  
Ensures smooth operation, essential for microscopic work.  
Dual DC motors provide efficient and reliable airflow control, reducing energy consumption and improving performance.

## STEREO ZOOM MICROSCOPES

- The working area has a glass heating surface of 100mm x 100mm, ensuring the sample remains at an optimal temperature for observation.
- The microscope offers an optical zoom ratio of 12.7:1, with a total magnification range from 0.67X to 8X, using a 1X objective and 10X eyepiece.
- It includes 10X paired eyepieces with a 22mm field of view (FOV), antifungal lenses, and dioptre adjustment on both eyepieces.
- Comes with a Plan Apochromat 1X objective, having a working distance of 70mm and a numerical aperture (NA) of 0.10.
- The objective and zoom body are apochromatically corrected for enhanced image quality. Features a trinocular observation tube inclined at 30°, with 100:0 and 50:50 light path distribution.
- The stage includes built-in LED illumination for transmitted light applications, two side mirrors for adjusting light direction, and a hand rest for user comfort.
- The LED has a lifespan of 60,000 hours. Equipped with dual coarse and fine focusing knobs and a focus drive with a 400mm focus column.
- Includes an 8MP Color CMOS camera with HDMI, USB, Network, and WiFi connectivity.
- The camera can be controlled via a standalone screen for image analysis.
- The glass heating surface on the working area ensures proper temperature maintenance.

## HEATING SURFACE

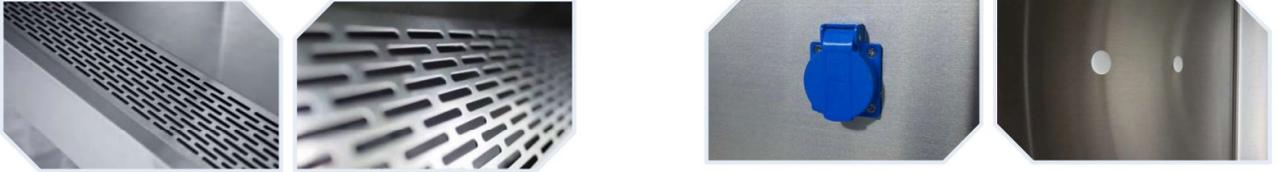
VARIATIONS OF HEATED SURFACE LOCATION AND ARRANGEMENT



# TECHNICAL DETAILS

## ROBUST CONSTRUCTION

- All biological safety cabinet structures are subjected to pressure decay method to prevent leakage.
- Seamless, non-porous, autoclavable SUS304 for working table, one-piece side/rear walls and bottom sink.
- Large radius corners is easily cleanable. No welded joints in the work area, reducing the growth of bacteria.
- Removable and divided table top is also available, which is easy to lift, thorough clean and further sterilization.



## RECEPTACLES & SERVICE FIXTURES

Waterproof and overload protection. Electrical outlet cover can be opened with one finger and then gently and slowly self-closes. Easy to reach service fixture, access for various valves for choice, including Gas, Vacuum, Air, Nitrogen, Water, Universal and etc. Optional Vacu-Pass Cord & Cable portal kit for passage of a cable through right-side wall. Accommodates cords/cables with different diameters.

## ARM REST

- Provides conformable area to rest arms and in addition armrests are needed, preventing grille blocking to guarantee non-blocked airflow.



## SUPPORT STAND

- Support stand is provided to ensure the cabinet stability and ergonomic working position.
- Detachable frame stand is convenient for installation, saving valuable lab space and shipping space as well.
- Manual adjustable leveling feet to compensate for uneven floor. Available with castors for easy re-location or transportation.



## MODEL & SIZE

Type - size	External dimensions /mm/			Workspace /mm/			Power consumption (W)
	width	height	depth	width	height	depth	
<b>DS-IVF6</b>	1950	1570	867	1830	720	625	900

