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Laboratory  
Equipment for IVF  
Procedures



Vardhman Medicare Pvt. Ltd.

# About Us:

At Vardhman Medicare Pvt. Ltd., we promise to support the doctors in setting up their infertility clinics (IUI, IVF, and ICSI Laboratories), including providing all the essential equipment, disposables, and consumables. We also assure to cater to our customer's specific/individual requirements regarding their infertility clinics.

We have been working since 1999, with our head office in New Delhi, India. Over the past two decades, we have successfully assisted in setting up 700+ IUI and IVF labs across India. We are currently associated with 11 reputable companies to distribute their high-quality products globally.

Scroll below to know about all the equipment we provide! We hope to connect with you soon! !

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# Laminar Air Flow (IVF)

To maintain a sterile environment in terms of filtration, illumination, noise, and vibration for performing IVF procedures.



*Vardhman (VMPL)*

1. **Size** 4" x 2" x 2";
2. **Airflow:** Vertical Airflow;
3. **Manufacturing material:** M.S. CRCA powder-coated body with high temperature-baked paint, and Stainless Steel table top;
4. **Integrated items:**
  - Provision for fixing one Stereo-zoom microscope,
  - Touch screen operations,
  - In-built Test-tube warmer,
  - Marked Heated area (with 98% +/-2% uniformity),
  - Pre-filter; mini plate HEPA filter
  - Imported blower motor,
  - Glass heating stage,
  - Inbuilt LCD screen, and
  - No vibration and low noise design.



*Pioneer Pro-Pump  
(Model : GPPD-230)*

# Oocyte Aspiration Pro-Pump

To provide smooth, low volume vacuum at pre-determined negative pressures, allowing simple, low turbulence, oocyte recovery.

- Fully adjustable and controlled vacuum down to 500 mmHg;
- Dual vac, 0-500 mHg, aspiration pump;
- Quiet operation support laboratory work environment;
- Complete set with all essential accessories.

# CO2 Incubator

To provide a suitable environment for embryo culture by maintaining an optimal temperature, humidity, and CO2 and oxygen level in the atmosphere inside the incubator.



*Thermo Fisher Scientific:  
Heracell 150i*

- Number of shelves: 3 (with separate inner glass screen doors);
- Dimensions per chamber/shelf: 16.7" x 18.3" (W x D);
- Material (Inner chamber and shelves): Stainless Steel;
- Capacity : 150 litres;
- External Dimensions: 25.1" x 30.8" x 34.1" (W x D x H)



*Thermo Fisher Scientific:  
Heracell 150i*



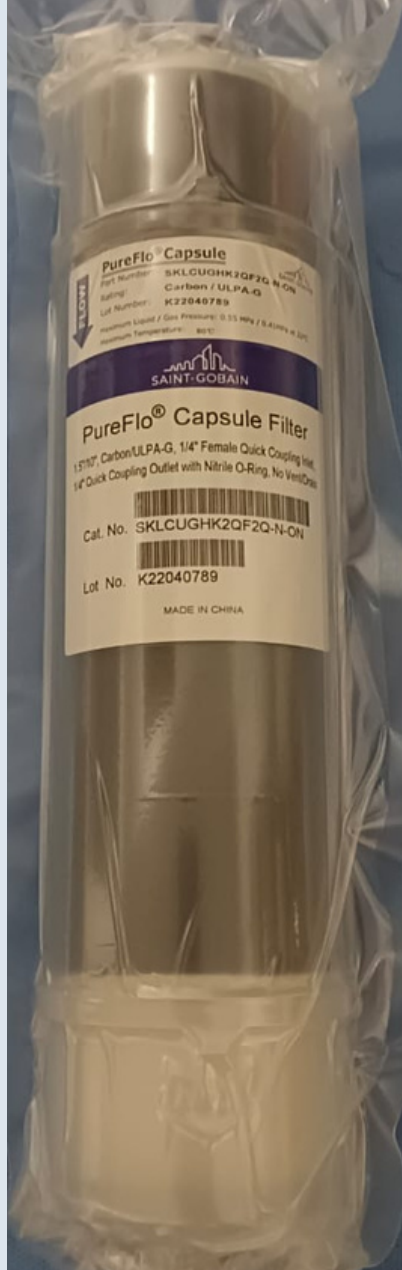
*Esab: Dura CO2*

## CO2 Regulators

To control the amount of CO2 dispensed from gas cylinders for various applications like CO2 Incubators and IVF Laminar Air Flow.

Double stage regulator with pressure gauges



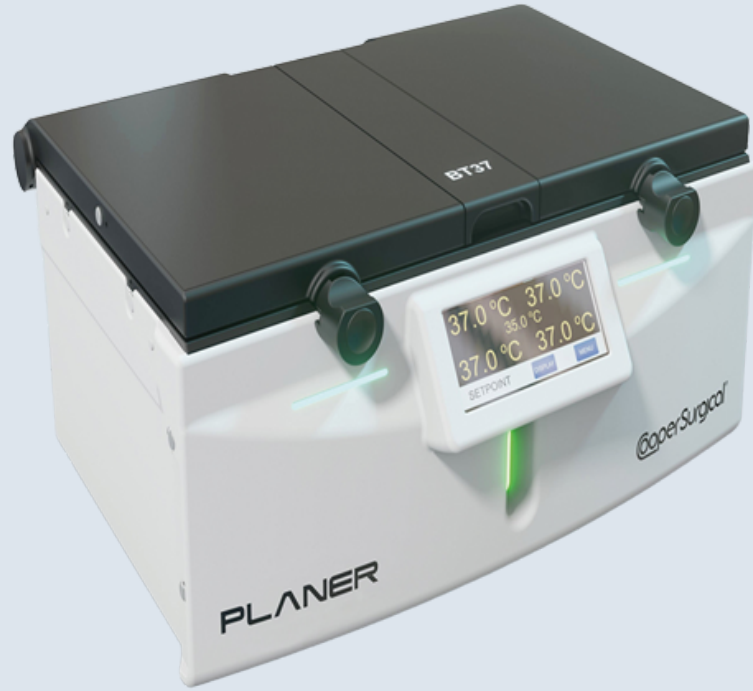


*Saint  
Gobain:  
PureFlo/  
Zenpure  
Capsule  
Filter*

## CO2 Inline Filter

To remove VOCs, hydrocarbons, chlorine, color, and odors from gases and aqueous or organic liquids.

- Inserted in CO2 gas piping between CO2 cylinder and Incubator.
- **HEPA filtration: Removes 0.3 um in size with an efficiency rating of 99.97%;**
- **Disposable unit to easily change out;**
- **Greater surface area to trap VOCs than granular carbon;**
- **Faster kinetics for VOC absorption;**
- **More porous, increasing accessibility of VOCs to be 100 times greater than with granular activated carbon**



*Cooper Surgical/Planer:  
BT-37 MarkII*

## Bench top Triple-Gas Incubator

To provide a suitable environment for embryo culture by maintaining an optimal temperature, humidity, and CO<sub>2</sub> and oxygen level in the atmosphere inside the incubator.

1. No. of chambers: 2 chambers;
2. Capacity (Dishes per chamber):
  - 4 x NUNC 4 well dishes, or
  - 4 x NUNC 60 mm Petri dishes 10 x NUNC 30 mm Petri dishes 4 x MINITUB 5 well dishes, or
  - 4 x FALCON 60 mm Petri dishes;
3. Power requirements: 100 - 240 V~ 50/60Hz 2A;
4. Gas supply: Premixed gas. Typically 6% CO<sub>2</sub>, 5% O<sub>2</sub>, 89% N.
5. External Dimensions: 435 x 330 x 185 mm (W x D x H);

# Stereo Zoom Microscope

To observe oocytes and embryos and perform denudations during IVF cycles.

1. Magnification: 0.67X to 4.5X ;
2. Zoom Ratio; 6.7;
3. Tube Tilting Angle: 45 Degree;
4. Eye Piece: 10X;
5. Light Source Type: LED;
6. Operating Environment: 0–40 °C (32–104 °F);
7. External Dimensions: 194 x 253 x 368 mm (W x D x H)



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(VMPL)*

Attached Camera:

CCD Microscopy Camera, with fixing adaptors and power lead



*Olympus:  
SZ61*

# Lab Air Purifier (VOC Controller)

To create a positive air pressure in the IVF lab and improve the air quality by minimizing airborne particles, chemicals, gases, and odors.

1. 3-speed centrifugal Fan;
2. High Efficiency Permanent Split Capacitor Motor;
3. 360° Perforated steel intake housing;
4. Baked on powder coat paint finish;
5. 14.5" x 14.5" x 23" (W x D x H);
6. Filter:
  - Medium Particulate Pre-Filter;
  - Perma Filter Pre Filter;
  - True Medical HEPA Filter;



*Austin Air Purifier*



*Vardhman  
(VMPL)*

# Air Pressurizing System

An Air Pressurizing Module with air purification system, having a return air mechanism to eradicate any major airborne contaminants.

1. Fully Stainless Steel body;
2. A closed- cycle system with provision for fresh air intake;
3. 3-stage Air filtration system i.e. through Pre-filter, HEPA filter and Activated Carbon Filter

# ICSI System



*RI Integra 3 Micro-manipulator  
with Nikon Inverted Research  
Microscope (Ti2-U)*

## 1. Integrated with:

- Make RI, model Integra 3 Micromanipulator;
- Nikon Inverted Research Microscope (model Ti2U);
- Large built-in mechanical XY stage
- 3.5'' color LCD touchscreen display for temperature control

2. Thermosafe™ Air Heating System with Heated Metal Insert: 25mm aperture (standard); 16mm aperture (optional); ITO Heated Glass Insert (optional);

3. Motion sensor LED light underneath the stage for improved visibility when changing objectives;

4. New extra-fine mechanisms for smooth and precise movement of the stage and micropipettes.

# Cryogenic Containers



*IBP:*  
*BA-11; BA-23; TA-55.*

*Containers with canisters for cryopreservation:*

*1. BA-11*

- Capacity: 11 liters;
- Number of Canisters: 7
- Static Holding Time: 83 days

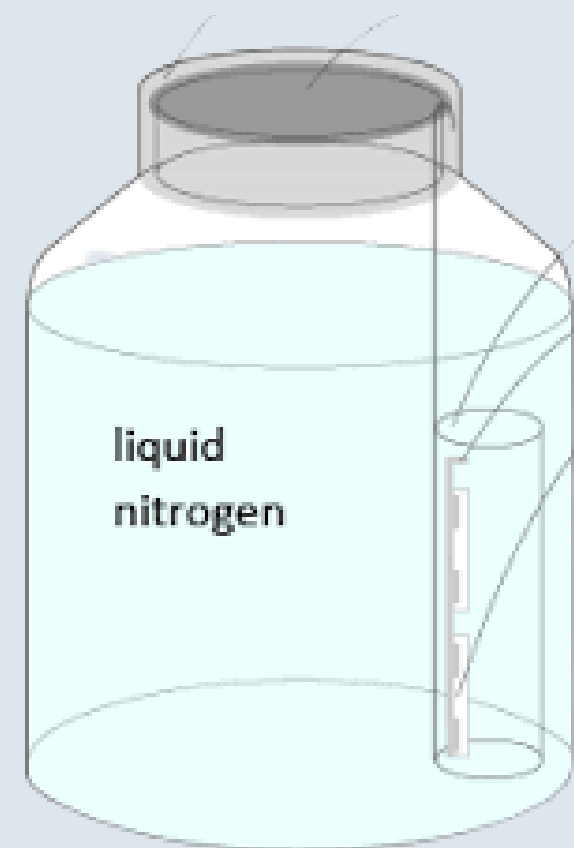
*2. BA-23*

- Capacity: 11 liters;
- Number of Canisters: 7
- Static Holding Time: 67 days

*Containers for transportation of Liquid Nitrogen:*

*1. TA-55*

- Capacity: 55 liters;
- Static Holding Time: 120 days



*IBP:*  
*Canisters included in BA-11, BA-23*



# Anti-Vibration Table

*To significantly reduce vibrations and disturbances while performing IVF and ICSI procedures.*

- 1. **Leveling Method:** Leveling Jack with anti vibration pads for clearing floor errors;
- 2. **Material:** M.S powdered coated with stainless steel top
- 3. **Dimensions:** 4' X 2.5' X 2.5' (W x D x H);
- 4. **Maximum Load:** 90 kg



# Stainless Steel Table

To keep all IUI and IVF Lab requirements, including CO2 incubator, ICSI machine, Centrifuge, Heating blocks, etc.

- **Material: Stainless Steel;**
- **Dimensions: According to the individual dimensions of each machine;**



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Others

# VOC Meter

A device that is highly sensitive to VOC and other indoor contaminative gases; Helpful in detecting indoor air quality in real-time, with an alarm monitoring system.

- Temperature and humidity detection display;
- Three color backlit LCD and buzzer alarm;
- 1 on/off output to control ventilator;
- Modbus RS485 interface (optional)



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# Thermometer

*To verify that any heated equipment, which comes into contact with the samples, is performing as required*

1. Range: -270 to 1768 °C;
- 2, Resolution: 0.1 °C/°F;
3. Accuracy:  $\pm 0.2$  °C  $\pm 1$  digit;
4. Sensor Type: Thermocouple type K, J, T, R, N, S & E - selectable;
5. External Dimensions: 35 x 73 x 141mm (W x D x H);



*Electronic Temperature  
Instruments Ltd.: 221-091*

Others



*Euro-gas:  
CO2-SS-20*

## CO2 Analyser

To measure, verify and validate CO2 levels in CO2 incubators, in medical departments, research and laboratories. The product is also utilized by field service engineers to repair, validate and calibrate CO2 incubators and equipment

- 1.0 – 20% volume CO2 measurement range;
2. Easy-to-use large color touch screen which can be operated if wearing gloves;
3. Weighing only 315g and with a comfortable handheld case;
4. Built-in flip-out tilting stand
5. USB charging feature



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