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## Anti-Vibration Table

### AntiVib 02

Designed to meet the requirements of ICSI procedures. Vibrations are eliminated by a complex anti vibration system achieved through an optimized choice of mass and support stiffness ensuring a fast dampening effect.

The inverted microscope is placed on an equilibrated and isolated platform, which gives a smooth and roomy workspace around the microscope for micromanipulation equipment, mini-incubators, patient records etc. The table is adjustable for all available models of inverted microscopes including motorized models.

## Technical specifications

**Dimensions:**

90 \* 80 \* 120 Cm

**Material:**

Stainless steel

**Weight:**

100 kg table

**Maximum tolerable weight:**

70 kg

**Resonance frequency:**

3-4 Hz

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## Calibrator

### Calib 01

Portable calibrating system for  
(Co<sub>2</sub>, O<sub>2</sub> and droplet Temperature)

### Technical specifications

**Dimensions:**  
140mm×120 mm×80mm  
**Weight:**  
500gr

**Temperature:**  
-20~80 (Resolution : 0.1)  
**Battery:**  
11.1 v / 2.2A  
**Charger:**  
12v/2A  
**O<sub>2</sub> sensor:**  
0-25% / 0.1  
**Co<sub>2</sub> sensor:**  
0-25% / 0.1/NDIR  
**Display:**  
Touch 3.5 inch  
**Communication:**  
USB

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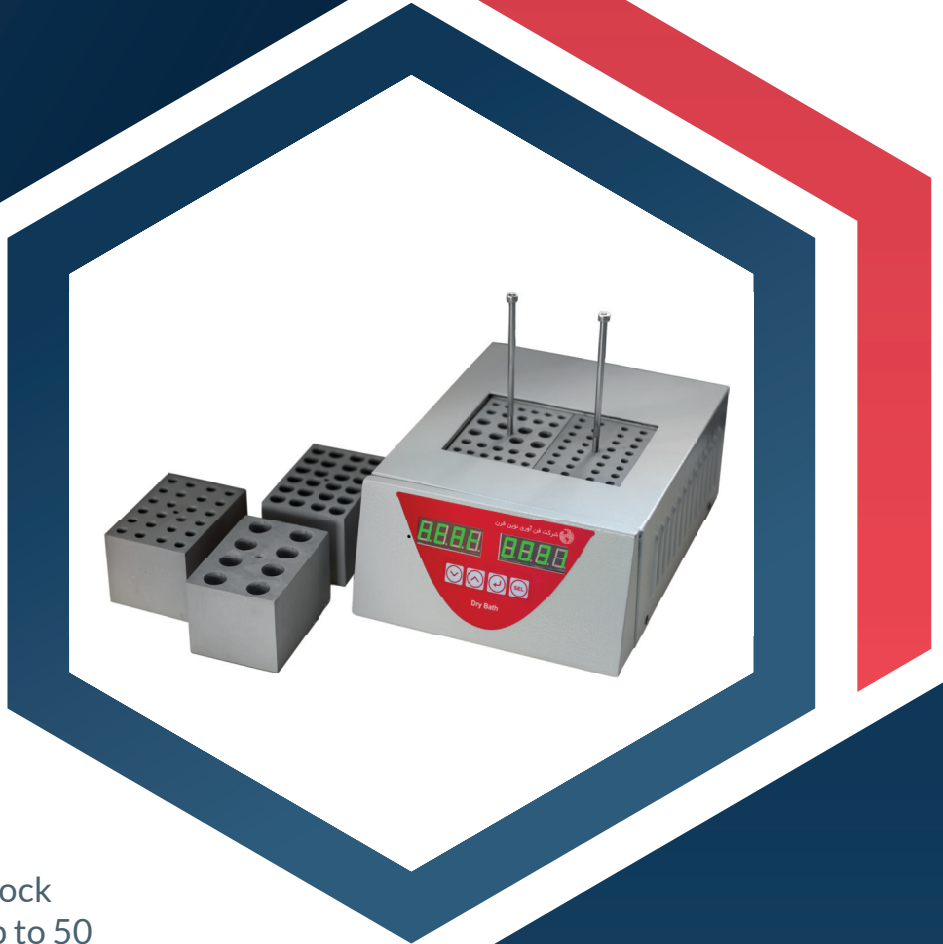


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## Thermoblock TB 01

The ETC Thermoblock is a dry block heater for incubation in tubes up to 50 ml and up to +130 °C

### Key Features

- ✓ Dual block system
- ✓ Removable heating blocks
- ✓ Temperature range:  
RT +25 °C to 130 °C

### Precise Temperature Control

The Thermoblock has been developed for incubation of reaction tubes at fixed temperatures. Temperature control is achieved by means of a Pt1000 micro sensor in order to obtain outstanding block uniformity ( $\pm 0.1$  °C at 37 °C).

### Dual Block Design

Incubation of a variety of samples contained in different reaction tubes causes no problems for the Thermoblock. The ETC Thermoblock has a capacity for two blocks, i. e. either two single blocks or one combi-block can be heated. Combinations of different single blocks allow simultaneous incubation of e. g. 15 ml Falcon tubes in one block and 1.5 ml reaction tubes in the other block.

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## Multi-Function Control

The ergonomic waterproof front panel facilitates data entry and temperature readings. It features a central multifunctional control knob for:

- Starting the block- Selecting temperatures up to 130 °C
- Start the countdown timer
- Activate the temperature deviation alarm
- Different calibration options

### Temperature control

Temperature range	Ambient +25°C to 130 °C
Temperature settings	+ 25°C to 130 °C
Temperature control accuracy	± 0.1 °C at 37 °C
Uniformity within the block	± 0.1 °C at 37 °C
Heating Rate	15 min from 25 °C to 100 °C

### Display

Display	Digital, LED
Display resolution	0,1 °C

### Removable blocks

Reaction tubes	0.2 ml, 0.5 ml, 1.5 ml, 2.0 ml
Other vessels	15 ml, 20 ml, test tubes, microscopic slides
Microtiter plates	96 well 0.2 ml, MTP with fl at bottom
Single Block dimensions	100 mm x 70 mm x 62.5 mm
Combi Block dimensions	140 mm x 100 mm x 62.5 mm
Capacity	2 Single Blocks or 1 Combi Block

### Program functions

Timer	Yes
Temperature deviation alarm	Yes (± 0.5 °C to ± 10 °C)
Offset	Yes (± 2 °C for single point calibration)
Calibration	Yes (± 3 °C of the original reading)
Reset	Yes

### Electrical properties

Main switch on instrument	Yes
Electric power supply	220 V, 50 – 60 Hz, 800 W

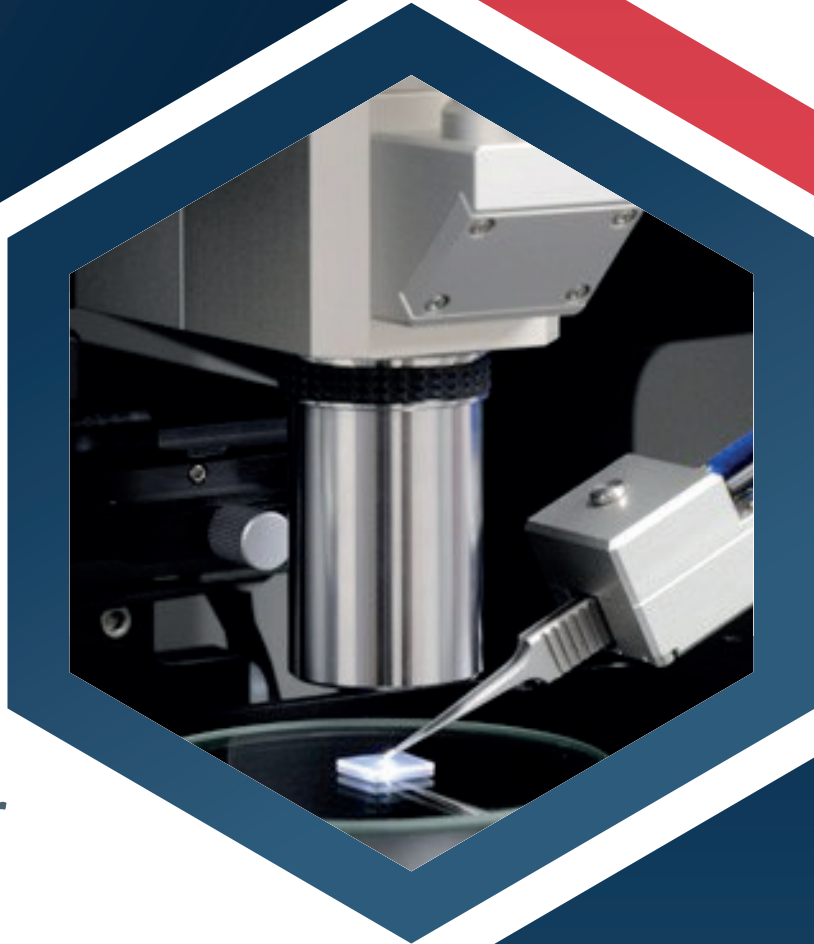
### Characteristics

Environmental operating range	10 °C to 35 °C (80 % max. relative humidity)
Dimensions (W x D x H)	210 mm x 280 mm x 100 mm
Weight	incl. blocks 6 kg





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## Micromanipulator

### Microman 01

ETC-Micromanipulator is a user friendly system with an innovative design to meet the most Cell manipulation requirements.

The Multi-Speed joystick allows for precise and intuitive movement in all three dimensions, and dynamic movement for covering longer distances. It is ideal for manipulation of early embryos and oocytes, transferring of stem cells and micro particles, and a wide range of applications in non-human reproductive biology

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## Specifications

Step size	<20 nm (computational resolution)
Speed	0 – 10,000 $\mu\text{m/s}$
Mechanical adjustability	>80 mm
Dimensions	129 × 51 × 36 mm
Weight	570 g
Direction of rotation	-45° to +90°
Capillary exchange	Direction of rotation: forward
Sample replacement	Direction of rotation: backward

## Control board

Control	Joystick
Speed modes	coarse, fine
Communication	Serial interface, USB, Wi-Fi
Dimensions (W x H x D)	205 × 288 × 152 mm
Weight	1.7 kg

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## Ultra-fast Papanicolaou sperm staining kit

### Technical specifications

Color:

Colorless (A), Purple (B), Orange (C), Green (D), Colorless (E)

Quantity:

5 × 100 cc

The ETC Papanicolaou ultra fast Staining Kit is a complete set of reagents to stain semen smears for sperm morphology. This unique product includes the stains, alcohols, clearing agent and mounting media for performing modified Papanicolaou stain, the recommended stain for sperm morphology analysis.

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## Ultra-fast Diff-Quick sperm staining kit

The ETC-Diff fast Staining Kit (20 sec.) is a complete set of reagents to stain semen smears for sperm morphology.

### Technical specifications

Color:

Light green (A), Red (B), Dark blue to purple (C)

Quantity:

3 × 100 cc

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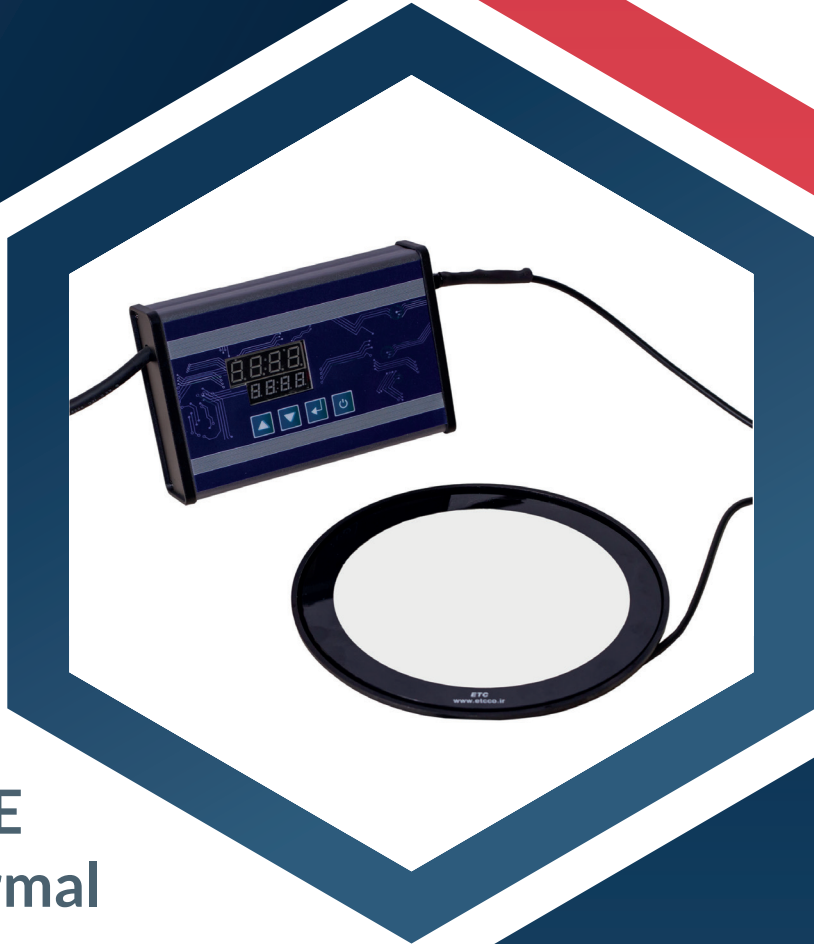


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## ETC WARM PLATE For Accurate Thermal Control

WP01- WP10- WP20- WP30- WP40

Universal warm plate with transparent thermal surface and height adjustable legs. It is applicable for use with various types of stereo microscopes.

### ETC warm plates for different brands of microscope

ETC warm plates are compatible with microscopes from Olympus, Nikon, Leica, Carl Zeiss, etc. Accuracy of thermal control and stability during microscope observation has been improved.

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## MICRO WARM PLATE

Micro warm plate is a thermo plate with a transparent glass surface. It ensures accurate thermal control of specimens at your desired temperature during microscope observation. Thermal stability has been greatly improved with ETC original technology; combining PID system with heat generation in the glass plate

### SPECIFICATION

Temperature Setting	30-41 °C
Accuracy of temperature indication at 37°C	± 0.1 °C
Communication	RS485(ModBus)
Power Supply	220 AC/50HZ -200W
Glass Thickness (mm)	0.4 ~ 1.1

### Experts and experienced engineers

ETC warm plates are manufactured by experts and experienced engineers who have passed vigorous in-house examination standards. We welcome custom-order requests to meet your demands

- Automatic thermal control system for microscope stage

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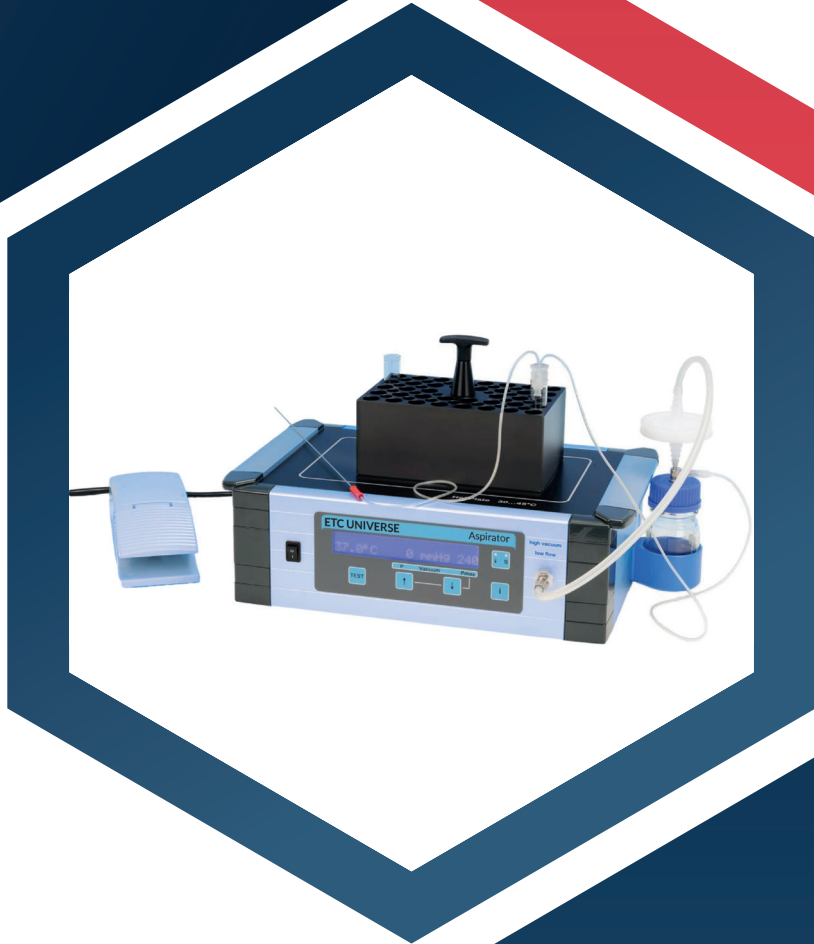


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# Aspirator

## Asp-02

Precise aspiration pump for  
follicular puncture

### Advantages of Aspirator:

- Approved medical device
- Easy handling by electrical pedal
- Long durability
- High reliability
- Very silent
- Constant control of negative pressure
- Safe by overflow protection
- Connection for potential compensation

### Basic equipment:

- Aspirator Asp-02
- Foot pedal
- Mains adapter
- 2 x overflow bottle, 2 x blocking filter and tubing

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### Technical data

According to Directive 93/42/EEC	Class IIa
EN 10079 conform	high vacuum, low flow
Negative pressure	0 – 500 mmHg 0 – 666 mbar
Volume of overflow vessel	100 ml
Dimensions	~ 408 x 130 x 250 (w x h x d in mm)
Weight	~ 7.6 kg
Connection for aspiration tubing	Ø 2 to 4 mm
Power supply	230 V AC, 50/60 Hz or 115 V AC, 50/60 Hz, 85 VA
Safety class	I

### Hotplate (optional)

Temperature range	30 °C – 45 °C
Heating up time	< 10 min.



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## Basic Stem Cell Culture Medium (BSEM)

Before using, allow BSCM to reach to the room temperature.

Depending on the culture, add the required percentage of serum.

The BSCM is sterile and ready for use.

Keep at 4~8 ° C & away from direct light.

The BSCM medium with nutrient formulation has many uses in serum or serum free cell culturing. BSCM contains glutamate enriched with suitable growth factors for mesenchymal stem cells. The BSCM are formulated at the highest quality and sustainability, and give you the best results in cell culture.

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## Workstation WS-02

This series of workstations provides protection and heating for samples and a broad variety of other features.

- **Heating and humidification**

As a standard, the full series has an integrated gas humidification system. The our heat system, developed using our many years of experience, controls and provides uniform and precise heat distribution in the work area

- **Quiet**

The quiet fans supply a uniform and turbulence free air flow

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- **Consistent, gentle air flow** – Even curtain of non-turbulent air flow at less than 48dBA, filtered with HEPA filters

- **Safe** – ETC workstations are independently certified and comply with the necessary safety requirements for electrical equipment:

IEC 61010- 2-010:2003,

IEC 61010 -1 -2010 (3rd Edition)

- **Even temperature control** – Integrated temperature controlled humidification system enabling full flexibility for short-term incubation

- **Optimized work area** – Electrically heated, microscope prepared surface, with accurate control and even temperature stability. WS-02 heated glass technology and LED light source fitted as standard. Also included as standard are a 21.5” LCD monitor and electrical outlets



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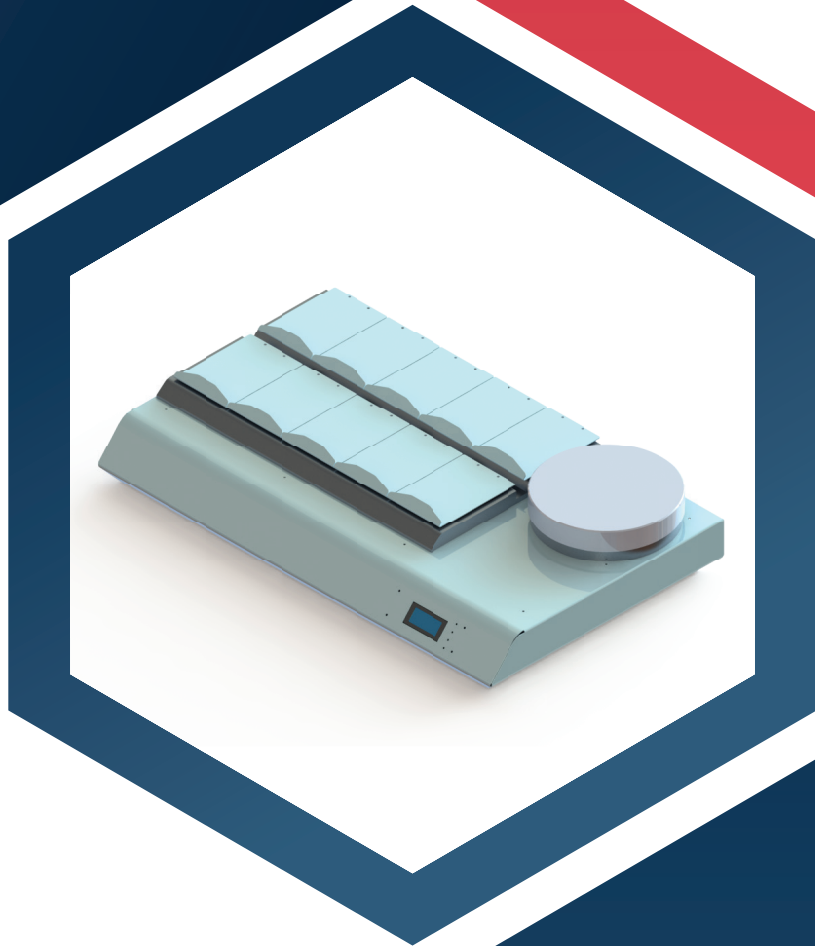


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## Bench-Inc01

Long-term incubator

Bench-inc01 benchtop incubator combines optimal embryo growth conditions with advanced user control. It is the ideal incubation solution for a busy clinic

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9001:2015



13485:2016



National Medical  
Device Directorate IR.IRAN

- **Advanced user control** – Advanced intuitive user interface with dedicated security system
- **Economical** – Low running costs because of low gas consumption and use of pure gas
- **Independent external monitoring** – An option for independent external monitoring of key parameters including temperature and gas concentration

- **Space saving** – Ten individual incubation chambers to ensure minimal stress and risk of cross contamination for the embryos. Significant space saving
- **Heating** – Dedicated heating plates with grooves ensure direct heat transfer to the dish
- **Responsive gas control** – Set the required specifications to mix CO<sub>2</sub> and O<sub>2</sub>. Uses pure CO<sub>2</sub> and N<sub>2</sub> (optional)
- **Optimal environment** – Embryo conditions, including pH levels, are kept completely stable through advanced and accurate software control of gas and temperature thus providing stress-free incubation

- **Ambient humidity** – The Bench-inc01 is an incubator with ambient humidity which minimizes the risk of fungal growth inside the incubator and makes it easier to clean
- **Safe** – Electro-magnetic fields eliminated by non-inductive ETC™ technology
- **Superior filtering and hygiene** – High efficiency particle filter to remove airborne particles. VOC filter to remove organic compounds
- **Tracking and alarm** – Data logging and alerts with ETC™ extensive ethernet based monitoring



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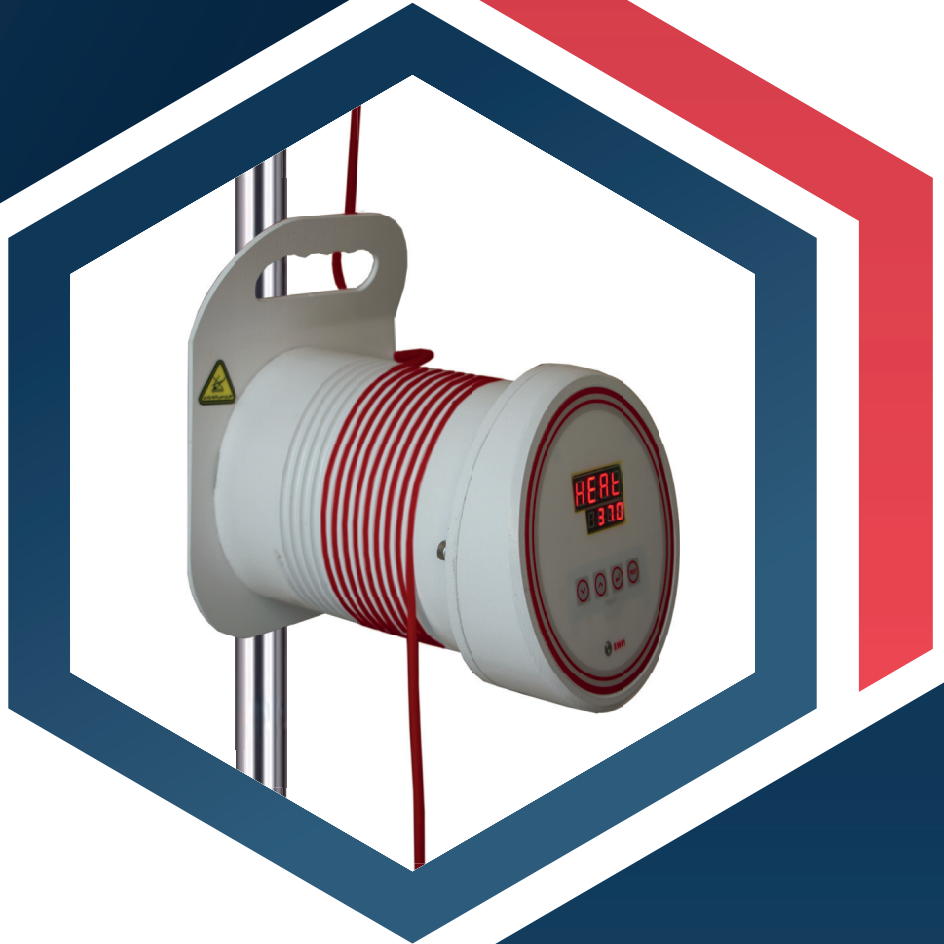


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## Blood Warmer

BW01

Temperature can be set freely in increments of 0.1 °C from 37 °C to 40 °C. The BW01 encompasses a slim and ergonomic design.

The integrated universal mounting clamp allows the device to be placed on an infusion stand as well as on a normed rail. Temperature can be set freely in increments of 0.1 °C from 37 °C to 40 °C. The BW01 encompasses a slim and ergonomic design. The integrated universal mounting clamp allows the device to be placed on an infusion stand as well as on a normed rail.

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- Setting of temperature from 37 °C to 40 °C in 0.1 °C increments
- Easy to read display
- Optimized warming circuit
- Economic consumables
- High temperature alarm and low temperature information signal
- Permanent running self-tests
- Mounting on a normed railing and an infusion stand
- Integrated handle

#### Technical data:

Operating voltage	220 V- 240V AC , 50/60 Hz
Power consumption	max. 300 W
Supply type	mains operated
Protection class	I
IP - classification (IEC 60529)	IPX1
Protection class	I
Operation mode	continuous operation
Dimension	230 x 150 x 200 mm
Weight	2.6 kg



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## ETC IVFCeII® O<sub>2</sub> (optional) ,CO<sub>2</sub> incubator

Inc-01

- Precise Temperature, CO<sub>2</sub> Control and High Humidity
- Best uniformity and control among competition
- Fast CO<sub>2</sub>, temperature and humidity recovery without overshoot
- Direct heat design for rapid recovery, with 9 heater

ETC IVFCeII® CO<sub>2</sub> incubators are widely used in scientific research to grow and maintain cell cultures. Typical fields of application include tissue engineering, in vitro fertilization, neuroscience, cancer research, stem cell research, regenerative medicine, and other mammalian cell research.

Sleek, reliable and intuitive, ETC IVFCeII® CO<sub>2</sub> incubators provide all-rounded sample protection that brings your scientific dreams one step closer to reality.

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- Chamber is made of shiny stainless steel chamber with all rounded corners.
- Ductwork, plenums and shelves are removable without tools.
- Glass door is easy removable.
- Easy-to-Service
- Diagnostic functions in the microprocessor include historical read-out of the parameters.

- Air jacket provides isolation against ambient temperature fluctuations
- ETC-Clean-Flow forced convection accelerates recovery of chamber air to ISO Class 5 Cleanliness after door closing to prevent contamination
- Filtered air circulates across water pan to accelerate humidifying process
- Air flows gently around culture plates, causing no disturbance to cell culture
- Blower automatically stops when door is opened, to minimize mixing of chamber and room air
- Contamination Control System Provides Seamless Protection
- ULPA filtration enables the chamber air to be maintained at ISO class 5 condition.
- Validated moist heat decontamination cycle operates overnight to eradicate any contamination in the unlikely event it occurs. At the end of the cycle, the chamber is dry and ready to use.

- All input gases are filtered by in-line filters before they enter the chamber to remove impurities and contaminants.
- The incubator's main body is made from electro-galvanized steel and antimicrobial color.
- The interior of the chamber is made from stainless steel type 304.
- User-Friendly Interface
- Comprehensive user-configurable alarms for all the parameters.
- Alarm system reminds user to replace CO<sub>2</sub> tank and ULPA filter.
- Intelligent data and event logger records all incubator parameters for on-screen recall.
- 4 MB built-in flash memory guarantees long term storage of data.
- Diagnostic interface and online quick help provide comprehensive solutions to frequently encountered problems.
- RS485 data output
- Easy-to-Clean

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## Plasma thawer

PLT01

Plasma Thawing Systems from ETCuniverse use both controlled temperature and agitation to substantially reduce thaw times while ensuring the safety of your plasma or cryoprecipitate. A range of sizes is available to meet your needs

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## Advantages over Other Plasma Thawing Systems

- Reduce Unused Plasma

Rapid thawing with the ETC-Thaw reduces the amount of plasma that must be thawed in advance. The baskets agitate the units in 36.5°C water for optimal heat transfer and the most rapid, yet safe, thawing.

Reducing unused thawed plasma results in cost savings for you.

- The ETC-Thaw is suitable for thawing cryoprecipitate and red blood cells as well as warming saline.

- Maximum Versatility

Both random and apheresis plasma bags may be thawed in any unit (whether flat or folded).

- Space Saving

The compact size of ETC-Thaw Plasma Thawing Systems conserves space on your benchtop.

- Overwrap Protection

- ETC-Thaw's design allows for easy cleaning, with no hidden areas.

- Flexible, Convenient, and Safe



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