

MEDITECH CO2 Incubator

reen Technology for life

Technology, Quality, Reliability and Repeatability

Environmentally friendly CO2 Incubator powered by Meditech Technology for safe cells and Tissue cultures

ISO 9001, ISO1400, ISO13485, CE and WHO-GMP certified.





Why Meditech CO2 Incubator

Discover Technology, Quality, Reliability and Repeatability

Meditech CO2 incubators are trusted by scientist worldwide for their valuable cultures than any other brand. Meditech CO2 incubators provide optimal growing conditions, outstanding contamination prevention and proven reliability. A high temperature decontamination function that eliminates the need for separate autoclaving and reassembly of components.

Clean room like air quality is obtained using HEPA air filtration that surrounds the cells. There is a high choice of 100% pure copper or electrolytic polished stainless steel interior surface. Hence Meditech CO2 incubators lets you culture with confidence.



Optimize Cell Growth through Advanced

Technology, Quality and Reliability

Enhanced capacity

- 1. Table Top to Large Capacity Models
- 2. Choice of Volume 50 L to 821 L
- 3.Stackable Models for space constraints Labs
- 4. Adjustable Shelves Space for Stirrers, Large samples, Shakers and cultural devices

FEATURES

- •Reversible door swings
- •Solid copper interiors or polished Stainless steel
- •Easy-to-clean coved corners and convenient access ports
- Sturdy adjustable shelves, easily removed without tools

Quality chamber construction

- 1. Light Weight Direct Heat Technology
- 2. Water Jacketed Temperature Designs for protection against unexpected power failures.
- 3. Decontamination with Direct Heat Technology.
- 4. Meditech CO2 incubators are designed for precise reliable control and tight uniform values
- 5. All CO2 incubators confirm to strickest electrical standards

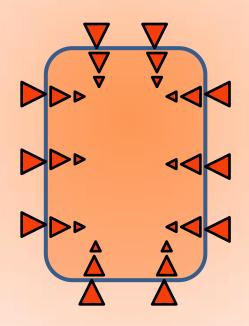


Technology

Direct Heat vs Water Jacketed

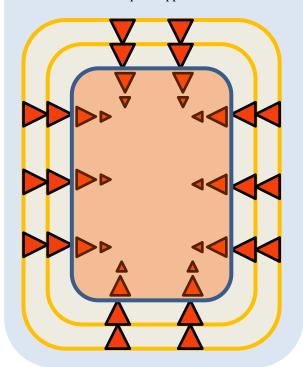
Direct Heat

Even Temperature distribution throughout the entire chamber. Efficient High Performance heaters located on every chamber surface.



Water Jacketed

Outstanding temperature stability supplied by dual layer of water and high quality of insulation. Unique Tripple wall construction



Complete contamination control

Protect your cultures with proven technologies

Our advanced contamination control technologies are designed to protect your valuable cultures and save you time and resources spent on fighting contamination while providing security for your work. Your cultures are continuously protected 24 hours per day, 7 days per week. Convenient ondemand high temperature sterilization is designed to eliminate contamination and simplifies your cleaning procedures.

3-Way protection against contaminants

(1) High-efficiency ISO Class 5 air purity

In-chamber HEPA airflow system filters entire chamber volume every 60 seconds, removing airborne biological and particulate contaminants, with ISO Class 5 (Class 100) clean room air quality within five minutes after door opening.

(2) 140° C dry heat sterilization

This safe and effective overnight high-temperature sterilization cycle is proven to effectively eliminate bacteria, mold, yeast, mycoplasma and even resistant spores, simplifying cleaning protocols and protecting cultures and personnel.

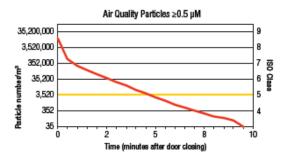
(3) Full humidity control with convenient external water reservoir

An external water supply allows refilling without opening the chamber, eliminating a potential source of water-based contaminants inside the incubator. Active humidity controls are easily adjustable and at-a-glance water level indicator helps prevent sample desiccation.

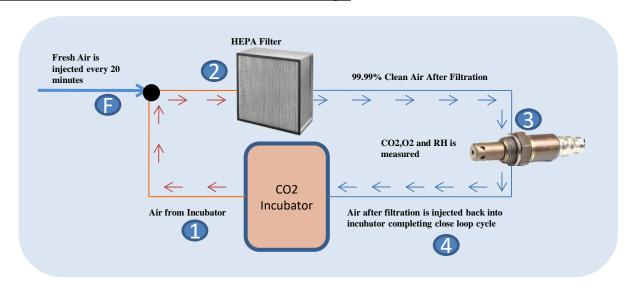
ISO Class 5 Clean room Conditions - Closed Loop HEPA Filtration

Airborne particulates are a primary source of contamination in most lab settings. Meditech advanced HEPA filter technology protects your cultures, providing ISO Class 5 clean room-like air quality conditions within only five minutes after a 30- second door opening.

- Chamber air is filtered every 60 seconds to ensure air quality
- Featuring a space saving configuration, the HEPA filter is readily replaceable with minimal cost



HEPA Air Filtration For Air Purity



Steps

- 1. Air from incubator is drawn by pump
- 2. Air is injected into HEPA filter for 99.99% purification
- 3. Air after purification is passed through sensor to measure CO2, RH and O2.
- 4. Air is injected bank to the incubator.
- 5. Fresh air from atmosphere is injected into the system every 20 minutes. Decision taken by intelligent controller if its required.

The Meditech Control system maintains a positive pressure inside the incubator to eliminate contaminated air to enter inside when the door is open. There is a close loop system continuously filtering chamber air through Hepa filter.

Meditech offers 2 Types of Decontamination and sterilization

- 1. 140° C dry heat sterilization
- 2. 90°C moist heat decontamination

(1) 140° C dry heat sterilization

This safe and effective overnight high-temperature sterilization cycle is proven to effectively eliminate bacteria, mold, yeast, mycoplasma and even resistant spores, simplifying cleaning protocols and protecting cultures and personnel.

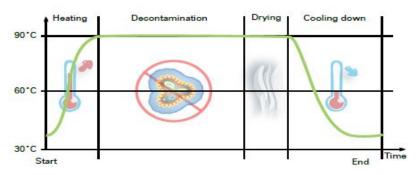
High temperature sterilization for easy cleaning with push-button simplicity

Conveniently decontaminate your incubator using an on-demand high temperature cycle and eliminate the need for separate autoclaving and re-assembly of components

- Automatically radiates heat uniformly to all interior surfaces, requiring no post-cycle clean up, and returns quickly to selected operating conditions
- Independent third party tests prove the elimination of biological contaminants, including fungal mold and bacteria including mycoplasma
- Avoids the physical constraints and variation of UV germicidal lamps and on-going costs, handling and storage of potentially toxic germicides

(2) 90°C moist heat decontamination

Decontamination cycle a look at Meditech rapid, overnight decontamination cycle



Decontamination cycle

While every precaution is taken to avoid susceptibility to contamination, an easy to use, maintenance free decontamination cycle is standard for added peace of mind. The incubator utilizes a time-tested, effective method of decontamination. Meditech 90°C moist heat decontamination cycle is a scientifically proven method for safe and effective decontamination. Unlike dry heat decontamination cycles, extreme temperatures are not required to decontaminate. Our design further simplifies and accelerates conventional moist heat cycles by adding a drying phase, making it the fastest 90°C moist heat decontamination cycle on the market. This new feature occurs at the end of the decontamination cycle and pumps HEPA filtered air into the incubator. The result is a sterile, dry incubator with no clean up required! The drying cycle quickly cools the incubator as the last phase of the maintenance free, overnight decontamination cycle

Safe cell and tissue cultures

The Meditech design incorporates the latest technologies to prevent contamination and to keep your cell cultures safer than ever.

The entire interior of the incubator is constructed of high grade polished stainless steel with coved corners. All of the interior metalwork components are easily removed without the use of tools. The unique "tool-less" removable interior allows for simplified routine incubator cleaning.

The exterior of the incubator is made of cold rolled steel and powder coated with antimicrobial powder paint. This additional layer further protects the incubator against contamination.

During routine door openings, the blower system automatically shuts off, minimizing the amount of air exchanged with the outside environment. CO2 gas inlets are protected with HEPA filters to ensure a pure gas supply.

(3) Full humidity control with convenient external water reservoir

An external water supply allows refilling without opening the chamber, eliminating a potential source of water-based contaminants inside the incubator. Active humidity controls are easily adjustable and at-a-glance water level indicator helps prevent sample desiccation.

TOUCH SCREEN

Meditech touch screen is designed to provide complete data visibility to monitor all CO2 incubator functions. Eye level Door mounted display for easy access. On Screen MENU, error and usage logs, data logging, performance trend graphs and multiple langauge selection.

Oxygen Control Range

Two available oxygen control ranges

- (1) Option to simulate physiological hypoxic environments for stem cells and IVF applications.
- (2) Option to increase oxygen concentration for the ability to operate at hyperoxic levels.



Added culturing flexibility with variable oxygen control

Many cell types thrive best in CO2 incubators with

reduced oxygen. Culturing cells at lower oxygen concentration will better simulate physiological conditions, resulting in cell behaviors that are more predictive of the *in vivo environment*.

Our variable oxygen control (or "tri-gas") incubators can generate conditions to help your cells grow faster and healthier. With the Heracell VIOS CO2 incubator, you can select the incubator for your O2 range: simulate hypoxic (1–21%) environments for primary cell, stem cell and embryo research applications, or hyperoxic (5–90%) conditions for research in lung, retina and other sensitive tissues.

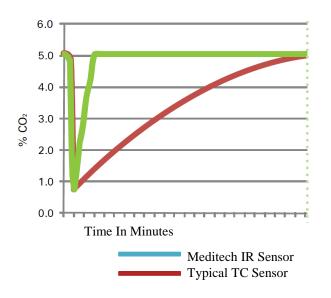
Air circulation for rapid recovery

Meditech CO2 incubators are equipped with large air circulators for outstanding uniform distribution of critical environmental conditions like heat, gas and humidity. Effective air distribution minimizes variation between cultures no matter where your cultures are located while preventing desiccation.

RH control and measuring

Meditech provides exterior reservoir for humidification to remove potential source of contamination. Reservoirs are available to replenish water without disturbing cultural activities.

CO2 Measuring Technology - Infrared sensor a time-tested technology to provide precise co2 control



- •Meditech CO2 incubators utilize a single beam, dual-wavelength IR CO2 sensor to get the most accurate measurement of CO2 in the incubator. It is the leading, proven technology in the field of CO2 measurements.
- •Most competitive models utilize a Thermal Conductivity (T/C) sensor, which is affected by temperature, humidity and oxygen levels. Our IR sensor only reads CO2, offering unmatched precision control and stability over wide temperature and relative humidity ranges.
- •O2 incubators introduce nitrogen into the incubator atmosphere, creating yet another variable complicating the T/C sensor's ability to accurately read CO2 levels. Hypoxic conditions in T/C equipped incubators further delay CO2 recovery. O2 levels have no affect on Meditech's IR sensor's ability to accurately read CO2.
- •Adjusting CO2, temperature or humidity set points does not require any type of re-calibration of the IR sensor, unlike T/C sensors, which need re-calibrated any time a setting is changed

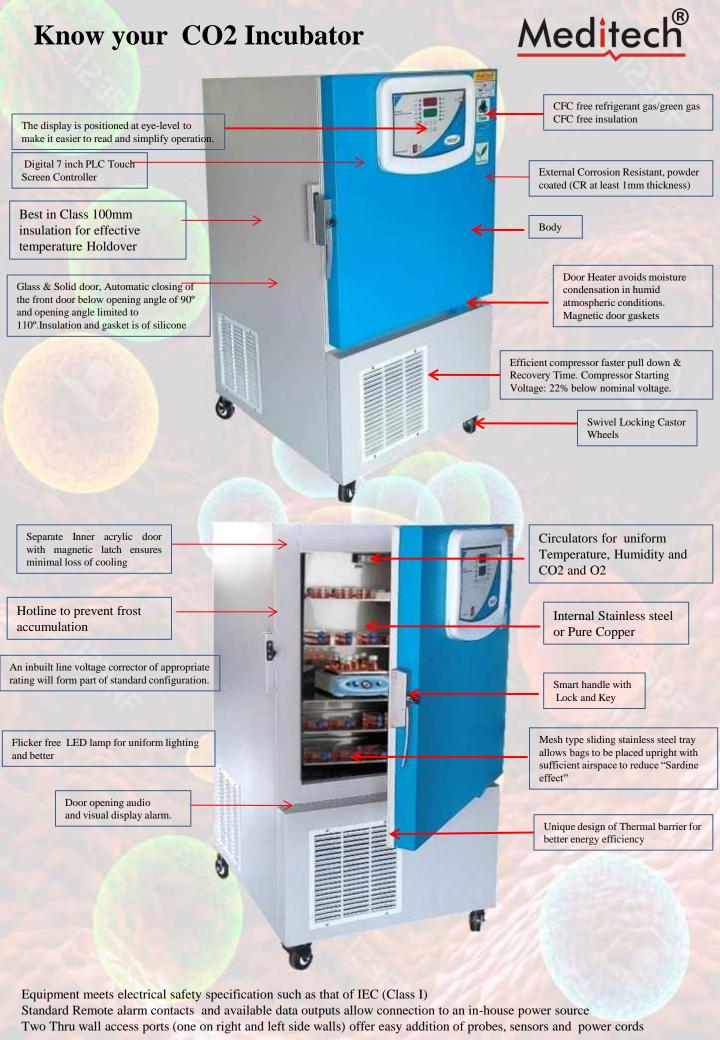
Complete contamination control - cont

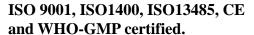
The main advantage of using meditech co2 incubator is ability to maintain cells. There is no comparison with the level of comfort level that can be achieved using copper tank co2 incubators. Meditech has 14 years experience working with all types of mammalian cell lines, including adherent, suspension, hybridomas and transformed stem cells.

Advantages of Solid copper tank

- 1. Meditech CO2 incubators are wide choice for cell culture professionals with 100% pure copper interior.
- 2. 100% solid copper is easy to maintain.
- 3. Copper surfaces are safe for cultured cells and provide long service life.
- 4. Copper makes a smart choice for Reliability, Durability and recyclability.









CO2 Incubator



Environmentally friendly CO2 Incubator powered by Meditech Technology for safe cells and Tissue cultures

Meditech CO2 Incubators are designed to protect and advance your life's research and work. The carefully engineered components are designed to maintain high relative humidity and precisely controlled temperature and CO2. environment will not only keep cultures secure, but create conditions so your samples flourish. incubator is designed with your convenience in mind by including many features to make operating the incubator a pleasurable experience.

Advanced technology and a secure environment.

Meditech provides exceptional conditions for the most reliable results in cell and tissue culture studies. Precision-engineered direct heat and IR sensor technology provides stable temperature and exact CO2 control.

Compact, sleek design.

Takes up minimal space and is stackable so you can optimize your laboratory space. Each incubator comes with its own stacking kit for your setup convenience.

Rapid overnight decontamination cycle.

Decontamination has never been so simple than with the push of a button. Meditech rapid, overnight 90°C moist heat decontamination cycle is maintenance-free.

FEATURES AND BENEFITS

- •The Meditech compact and stackable, allowing you to attain the best use of the incubator's interior and your laboratory space.
- •The Meditech incubator is available to support hypoxic applications.
- Meditech Incubator comes with a drift resistant, highly-reliable Infrared (IR) Sensor, allowing for quick recovery after the door is opened.
- •The interior is comprised of polished stainless steel with coved corners, which is highly resistant to corrosion and allows for an easy and effective cabinet wipe-down when needed.
- •The adjustable shelves are readily configured to meet your application's need and slide out, making samples at the back of the chamber easy to access.
- •Our "tool-less" interior design allows you to remove the interior components for routine cleaning or to setup multiple types of cell research.
- •The rapid Decontamination Cycle cleans the incubator overnight with the push of a button, minimizing downtime.
- •Multiple HEPA filter design continuously
- Protects the incubator from contamination.
- •The Meditech-O has a tri-zone method for temperature control, utilizing individual heaters, which are located on the outside of every interior wall, to ensure highly uniform temperature that blankets the inside of the incubator. Temperature is rapidly recovered after each door opening.
- •Meditech carefully designed airflow system maximizes airflow and results in rapid temperature and humidity recovery with optimal uniformity.
- •Our ergonomic, intuitive user interface has a built in message center. It allows for effortless setup, at-a-glance monitoring from across the room and simple adjustments to set points and calibrations.
- •Advanced data logging system records time stamped incubator parameters for on screen viewing. Built-in help feature allows easy access to frequently asked questions.
- •Self diagnostic alarm system monitors all functions and controlled parameters and prompts the user in the event that any parameter exceeds programmable
- •A wide range of popular accessories are available which allow you to customize your unit for your application.

Ergonomic, intuitive user interface.

Incubator setup is simple and the large alpha/numeric display allows for at-a-glance monitoring.

O2 Model. Suppressed oxygen control is crucial

In many applications, such as the research of acute and chronic diseases. These demanding hypoxic studies are made possible with our O2 incubator. The O2 incubators feature a strategically placed spacer, recovering humidity after door openings at a much faster rate and allowing cultures to cultivate at optimum environmental conditions.



PLC Based Controller



Scrolling LIVE Data logger on LED screen

- 1. Temperature
- 2. Incoming Voltage
- 3. Ambient Temperature
- 4. Time in hours of revolution chart
- 5. Current Date
- 6. Current Time
- 7. Battery Voltage

DISPLAY INDICATIONS

- 1. Temperature
- 2. CO2
- 3. Humidity
- 4 O2 (Optional)

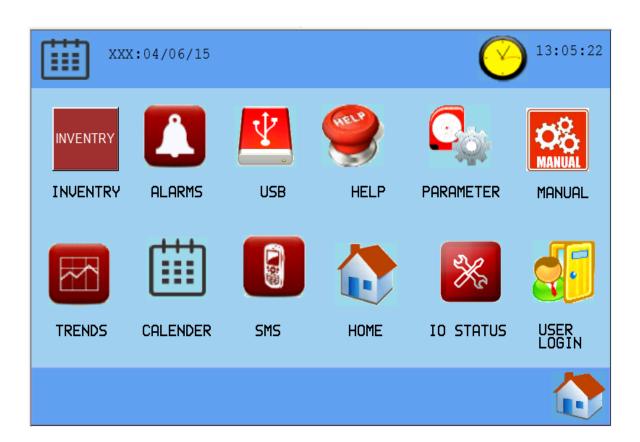
LED INDICATION

- 1. Line In
- 2. Power
- 3. Comp On
- 4. Heater On
- 5. Battery On
- 6. Battery Low
- 7. Temp High
- 8. Temp Low
- 9. Power Fail
- 10. Sensor Fail
- 11. Chart Change
- 12. System On

User Friendly Settings

- 1. Date
- 2. Time
- 3. High Temp Alarm
- 4. Low Temp Alarm
- 5. Hysteresis
- 6. Compressor Delay

Parameters	Meditech IR Sensor	TC Sensor		
		Temperature and humidity influence the CO2 reading;		
	The sensor is not affected by temperature or	measures the thermal conductivity of air, not CO2		
Accuracy	humidity; it solely reads CO2 levels.	alone.		
		CO2 cannot recover until both temperature and		
	CO2 recovers in less than five minutes after a 30	humidity stabilize; the average CO2 recovery is 30		
Recovery	second door opening.	minutes.		
	Gives precise readings of CO2 levels at all times	The CO2 display gives false readings until temperature,		
Reliability	because the sensor is only measuring CO2.	humidity and CO2 are stable.		
		Sensor calibration is required each time you change any		
	You can change CO2, temperature and humidity	of		
	settings without having to re-calibrate the IR	the settings; weekly calibration is typical with these		
Convenience	Sensor.	sensors.		





FEATURES AND FUNCTIONS

A REVOLUTIONARY MONITORING & ALARM SYSTEM



Error Free

Separate signatures for data reviews & data approval No mistake in record maintaining

Say No To Manual Recording

Data analysis

Tabular and graphical data representation



02 Sensors for Visibility and

Rooms: Co2 culture Rooms, Tissue Culture

selected locations on PC View Multiple areas or Humidity, Temperature ,CO2, Chambers: CO2 incubator, Tissue

View Data from Any part of the World

view from PC, smart phones and tablets

Browser base application software

Instrument connection

relocate and swap for service Data recorders are easy to

Audio and Visual Alarms for Settable Range Instant response to data request

Traceability

of analysis results Centralization

Data Protection and backups

-Continues Data saving

and calibration Research Chambers and

> Receive SMS and Email alarm notification



Alarm log with acknowledgement and user comments Alarms for parameter deviation **Email alerts for supervisor SMS Alerts** Alarms

Escalates unattended issues to higher Alerts users for pending activity **Supervisor Function** authority

MTJC 525308	WAT	ER JACKETED INCUBATORS					
188 1. (6.64 cu. ft.) 376 1. (13.28 cu. ft.) 546 x 1300 x 535 mm 548 x 1867 x 686 mm 548 x 1867			MTJC 525308				
Standard Chamber capacity							
S46 x 13 x 130 x 535 mm		188 L (6.64 cu. ft.)	376 L (13.28 cu. ft.)				
Stetral dimensions (w x h x d)	1						
Steternal dimensions (w x h x d)	Internal Chamber dimensions (w x h x d)	(21.5 x 25.5 x 21 in.)	(21.5 x 51.2 x 21 in.)				
SS	,	/	,				
SS	External dimensions (w x h x d)						
CP		/					
Tinch Touch Screen PLC based LED Controller	SS	100% Stainless Steel Cov	ved Interior Chamber				
Dry: 99 kg / 218 lbs 224 kg / 492 lbs.	CP	99.99% Copper Coved Interior Chamber					
Dry	Controller and Display	7 inch Touch Screen PLC based LED Controller					
Fall H20 Jacket:	Weight						
Shipping:	Dry:	99 kg / 218 lbs	224 kg / 492 lbs.				
Water Jacket Capacity 20 gal. / 75.7 L 20 gal. / 75.7 L	Full H20 Jacket:	175 kg / 385 lbs	375 kg / 826 lbs.				
Stainless steel, perforated	Shipping:	130 kg / 287 lbs.	255 kg / 561 lbs.				
Stainless steel, perforated Number of shelves provided and maximum 4 and 17 6 and 24 Decontamination Cycle Humidified Cycle -95°C 14 Hours to run 14 Hours to run 10 Hours to		20 gal. / 75.7 L	20 gal. / 75.7 L				
Number of shelves provided and maximum 4 and 17 6 and 24							
Decontamination Cycle							
Humidified Cycle -95°C	•	4 and 17	6 and 24				
Dry Cycle Features-145°C							
Sensor accuracy (+/-) 0.1° C							
Sensor accuracy		10 Hours to run	10 Hours to run				
Range							
Readability and setability 0.1° C Uniformity (+/-) 0.1° C Humidity SP8% @ 37° C RH range >98% @ 37° C RH source 3 L (3.2 qt) standard pan O2 O-20% Control (readability and setability) 0.10% CO2 sensor type TC / IR (optional) Gas inlet pressure required 15 PSIG (1.0 bar) O2 control accuracy (+/-)0.1% O2 range 1-20% Readability and setability 0.10% O2 sensor type Fuel cell Gas inlet pressure required 15 PSIG (1.0 bar) Bectrical (code for Ordering) 115 VAC / 60 Hz Bectrical (code for Ordering) D 115 VAC / 60 Hz E 100 VAC / 50-60 Hz E E 230 VAC / 50-60 Hz E Remote Alarm contacts yes Data output and Communications Interface USB, Ethernt (LAN) and RS-485 CO2 Port yes Water Level Sensor yes Adjustable Leg Levellers yes Access Port ye	-						
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Full Size Water Pan yes Electrical Cord 8 ft. / 2.5 m	Fill Port and Drain Valve	•					
	Full Size Water Pan	-					
Automatic CO2 Tank Switch ves	Electrical Cord	8 ft. / 2.5 m					
	Automatic CO2 Tank Switch	yes					

Air Jacketed C02 Incubator

Model	MTBBR1	MTBBR2	MTBBR3	MTBBR4	MTBBR5	MTBBR6	MTBBR7		
Туре	Vertical								
Effective storage volume liters	90	160	200	340	560	710	850		
Effective storage volume cu feet									
	3.2 Cu Feet	5.6 Cu Feet	7 Cu Feet	12 Cu Feet	20 Cu Feet	25 Cu Feet	30 Cu Feet		
		5 stainless		5 stainless		6 stainless			
* * *	4 stainless steel slide out trays	•	5 stainless steel slide out trays	steel slide out trays	5 stainless steel slide out trays	steel slide out trays	6 stainless steel slide out trays		
Temperature Range	5°C above ambient to 60°C and -5°C to +60°C								
Temperature Control	±0.1°C at 37°C								
Temperature Uniformity	±0.3°C at 37°C								
Temperature Sensor	Precision Thermistor								
Humidity Range	Elevated up to 95% @ 37°C								
CO2 Range	0-20% CO2								
CO2 Control	±0.1% CO2								
CO2 Sensor	Infrared CO2 Sensor								
O2 Range (Optional)	1-21% O2								
O2 Control	±0.1% O2								
O2 Sensor	Fuel Cell								
Miniature Circuit Breaker									
(MCB)	240V / 10 A								
Cabinet material	18 swg CR Sheet - powder coated								
Inner chamber	22 SWG Stainless Steel Sheet								
Input voltage	110 / 230 V single phase AC								
Stabilizer	1KVA Built in stabilizer								
Chamber temperature range	-5°C to +60°C								
Air circulation inside the									
chamber	Continuously	operated force	d air circulat	tion using the	evaporator fa	ın			
Slide out rail	Heavy duty telescopic rail								
Lamp	CF Lamp 14W / LED Lamp								
Compressor	Hermetically sealed compressor								
Refrigerant	R134a								
Wheels	Caster wheels								
Temperature sensing method	Encapsulated digital sensor dipped in 0.25% glycerine solution kept in a plastic bottle						oottle		
Temperature controller	Temperature Recorder and Control Unit (TRCU)								
Accuracy of temperature sensor	(+/- 0.5°C)								
	4x7 segment I	ED (red) and	4x7 segmen	t LED (green))				
Display	3	(3.3.)	8	(894)					