

INCUCELL, INCUCELL V FRIOCELL, CLIMACELL CO2CELL



MMM Group

Laboratory incubators



...Blue Line

innovative heat technology



protecting human health

Laboratory incubators



Incubators – as specific as your application

Approval acc. to 73/23/EEC; 89/336/EEC.

The versatile standard line with microprocessor control unit

- 3 programs
- RS 232 – interface for printer or PC-communication
- delayed heating start and stop function
- acoustic and visual alarm in error state
- time range 99 hours 59 minutes
- mechanic safety thermostat type 3
- manual control of the air exhaust flap (the suction and air exhaust only INCUCCELL V, the air exhaust only INCUCCELL)
- adjustable ventilation rate 50–100% (only INCUCCELL V)



The high-tech comfort line with multi-functional microprocessor control unit

- 6 programs
- chip card system for individual program storage
- RS 232 – interface for printer or PC-communication
- delayed heating start and stop function
- acoustic and visual alarm in error state
- time range 0–40 years with 1 min-intervals
- digital safety thermostat type 3
- real time
- selectable rate of temperature increase or decrease – “RAMPS”
- programming of program time segments – “SEGMENTS”
- programme cycles
- adjustable ventilation rate 10 to 100 % (INCUCCELL V, FRIOCELL, CLIMACELL)
- manual control of the air exhaust flap (the suction and air exhaust only INCUCCELL V, the air exhaust only INCUCCELL)
- keyboard blocking
- door opening control (included in FC,CLC,CO2)



Incubators with natural / forced convection

INCUCCELL/ INCUCCELL V

Application

Suitable for safe treatment of microbiological cultures. The INCUCCELL line produces no noise and provides a very soft air convection within the chamber, the variant INCUCCELL V (with a fan) has an advantage of more precise temperature distribution with small deviations. These devices can be used especially in biological and microbiological laboratories, quality tests in pharmacy, cosmetics and testing in veterinary medicine and food processing industry.

Technical data

Volume: 22, 55, 111, 222, 404, 707 litres
Working temperature:
INCUCCELL: 5 °C above ambient temperature up to 99.9 °C
INCUCCELL V: 10 °C above ambient temperature up to 99.9 °C
Inner glass door
Interior: stainless steel, mat. No. 1.4301 (AISI 304)

Cooling incubators

FRIOCELL

The high technical standard of our FRIOCELL-incubators allows exact incubation processes both for variation and deviation. The units have very short recovery times and show an excellent manner in keeping the precise regulation. A unique cooling system ensures, that the samples are not dried while cooling. A high performance system of lighting ensures outstanding homogenous parameters for tests and growth conditions. These devices are designed for use in biotechnology, botany, food processing industry, cosmetics, chemical industry etc.

Volume: 22, 55, 111, 222, 404, 707 litres
Working temperature: 0.0 °C up to 99.9 °C, FC 22: + 5 °C up to 70 °C (option –9.9 °C)
Refrigerant: R 134a
Peltiér effect – FC 22
Inner glass door
Interior: stainless steel, mat. No. 1.4301 (AISI 304)

Climatic chambers

CLIMACELL

The CLIMACELL series was specially developed for applications, in which as far as possible exact and reproducible simulation of various environmental conditions is important, e.g. stability testing of components, packaging materials, food or chemicals, germination studies, plant cell or tissue cultures, insect cultures.

Volume: 111, 222, 404, 707 litres
Working temperature: without humidity 0.0 °C up to 99.9 °C, with humidity: 10 °C up to 90.0 °C
Refrigerant: R 134a
Cooling medium for generating the humidity: distilled water, drinking water (max. 50 mg Ca/l)
Controlled humidity: 10 % - 90 % RH
Microprocessor controlled humidifying / / dehumidifying system
Inner glass door
Interior: stainless steel, mat. No. 1.4301 (AISI 304)

CO₂ – atmosphere

CO2CELL

Application

CO₂-incubators meet requirements on absolute constant and reproducible environment for growth of cell, tissue and other cultivating cultures. Trial circuit heating management system eliminates the need of fan and consequently the risk of vibrations and contamination enormously and guarantees the maximum relative humidity with absolutely dry inner walls. Due to the air jacket system these device can be installed easily and the same holds for their maintenance.

CO₂ series have an innovative new door design, the chamber door seal securely seals against the heated stainless steel lining of the outer door, which eliminates the requirement for a glass inner door for most applications. Technology of CO₂ measurement – infrared sensor secures continuous, precise and reliable data on the CO₂ concentration in the chamber.



CO2CELL 48

Technical data

Volume: 48, 170 litres
Working temperature: 1 °C above ambient temperature up to 50 °C
Non-controlled relative humidity: up to 95 % RH at 37 °C
CO₂ concentration: 0,2 up to 20 %
CO₂ measurement via infrared sensor with an automatic calibration cycle
Interior: stainless steel, mat. No. 1.4301 (AISI 304)

Device characteristic

- Contamination risk avoided by using no fan
- 2x3 LED display
- Continuous indication of actual temperature value and CO₂ concentration
- Acoustic and visual alarm
- Infrared CO₂ sensor with exact output with no influence of chamber humidity
- Independent safety thermostat
- CO₂ HEPA filter
- Seamless inner chamber with fully rounded corners
- Trial heating system for quick recovery after door opening
- Semi-automatic CO₂ zeroing system
- high temp decontamination (exl. 48 l model)

Options

- access port Ø 25 mm
- Right door versions
- Copper interior (only 170 l volume)
- Lockable door
- RS 232 interface for printer or PC communication
- Recording software for PC
- Relay contact for remote alarm
- Automatic CO₂ change over unit
- Two stage CO₂ reduction valve
- Two stage N₂ reduction valve
- Single inner glass door
- Stacking stand and kit

Device characteristic

- Contamination risk avoided by using no fan
- Large graphical LCD display
- Indication of set and actual temperature value, CO₂ concentration, time and alarm reports
- Acoustic and visual alarm
- Infrared CO₂ sensor with exact output with no influence of chamber humidity
- CO₂ HEPA filter
- Seamless inner chamber with fully rounded corners
- Trial heating system for quick recovery after door opening
- Fully automatic CO₂ zeroing system
- Data-logging facility
- On-screen HELP facility
- 80% efficiency of usable volume
- Completely dry wall chamber
- Mechanically polished inner chamber
- high temp decontamination

Options

- access port Ø 25 mm
- right door versions
- copper interior (only 170 l volume)
- uncontrolled relative humidity of 97% at 37°C
- O₂ concentration control
- cooling system
- RS 232 interface for printer or PC communication
- recording software for PC
- key pad control
- mechanical door lock with key
- relay contact for remote alarm
- automatic CO₂ change over unit
- two stage CO₂ reduction valve
- two stage N₂ reduction valve
- humidity measurement and display
- internal IP66 sealed 240V socket
- 2-split inner glass door (volume 48 l)
- 4-split and 8-split inner glass door (volume 170)

Options

- access ports Ø 25, 50, 100 mm (Ø 100 mm is not available for 22 liters volume)
- door lock
- left door versions (excluded volume 22 and 707 litres)
- separate PT 100 sensor
- special software WarmComm
- HEPA filter for installation in an air inlet (INCUCCELL V only)
- expansion of working temperature range up to 99.9 °C
- arrangement against drying-up of culture mediums and tissue cultures (INCUCCELL V only)
- stainless steel casing of the devices

Options

- access ports Ø 25, 50, 100 mm (Ø 100 mm is not available for 22-liters volume)
- door lock
- left door versions (excluded volume 22 and 707 litres)
- separate PT 100 sensor
- HEPA-filter for installation in air inlet (INCUCCELL V only)
- special software WarmComm
- timer programmable water protected inner socket (only INCUCCELL V)
- potential-free alarm contact
- measurement of material's temperature with an independent movable sensor PT 100 (with indication on LCD display or PC)
- expansion of working temperature range up to 99.9 °C
- arrangement against drying-up of culture mediums and tissue cultures
- high temperature decontamination (excluded volume 404 and 707 litres)
- stainless steel casing of the devices

- –9.9 °C with cooled incubators
- interior lighting – a wide offer of various luminary sources (excluded volumen 22 and 55 l)
- access ports Ø 25, 50, 100 mm (Ø 100 mm is not available for 22-liters volume)
- door lock
- left door versions (excluded volume 22, 404 and 707 liters)
- timer programmable water protected inner socket
- exposure lighting with digitally adjustable light 10–100 %
- exposure illumination in shelves, especially for photo-stability tests (according to ICH Guidlene CPNP/ICH279/95)
- illumination measuring
- potential-free alarm contact
- measurement of material's temperature with an independent movable sensor PT 100 (with indication on LCD display or PC)
- special software WarmComm
- check of the door opening (microswitch) during the program with the possibility of the record by means of a printer or software
- stainless steel casing of the device

- –9.9 °C with cooled incubators
- interior lighting – a wide offer of various luminary sources
- access ports Ø 25, 50, 100 mm
- keyboard lock (prevents the access of unauthorised persons)
- automatic door lock
- left door versions (excluded volume 404 and 707 liters)
- timer programmable water protected inner socket
- exposure lighting with digitally adjustable light 10–100 %
- exposure illumination in shelves, especially for photo-stability tests (according to ICH Guidlene CPNP/ICH279/95)
- illumination measuring
- potential-free alarm contact
- measurement of material's temperature with an independent movable sensor PT 100 (with indication on LCD display or PC)
- special software WarmComm
- check of the door opening (microswitch) during the program with the possibility of the record by means of a printer or software
- stainless steel casing of the device

standard line

comfort line

Application	Device type	Type of the laboratory cabinet	Standard line Comfort line	Safety type Standard/Comfort	Natural convection	Forced convection	Working temperature (°C)	Volume 22 (l)	Volume 48 (l)	Volume 55 (l)	Volume 111 (l)	Volume 170 (l)	Volume 222 (l)	Volume 404 (l)	Volume 707 (l)
drying, tempering, sterilization	ECOCELL	Drying oven	● / ●	2/2	●		5*-250/300	● / ●		● / ●	● / ●		● / ●	● / ●	● / ●
	DUROCELL	Drying oven with inner resistant EPOLON- coating	● / ●	2/2	●		5*-125	● / ●		● / ●	● / ●		● / ●		
	VENTICELL	Drying oven	● / ●	2/2		●	10*-250/300	● / ●		● / ●	● / ●		● / ●	● / ●	● / ●
	STERICELL***	Drying oven / hot-air sterilizer	● / ●	2		●	10*-250	● / ●		● / ●	● / ●		● / ●	● / ●	
	VACUCELL	Vacuum drying oven	● / ●	2/2			5*-200	● / ●		● / ●	● / ●				
incubation	INCUCELL	Incubator	● / ●	3/3	●		5*-99.9	● / ●		● / ●	● / ●		● / ●	● / ●	● / ●
	INCUCELL V	Incubator	● / ●	3/3		●	10*-99.9	● / ●		● / ●	● / ●		● / ●	● / ●	● / ●
	FRIOCELL	Incubator with cooling	● / ●	3		●	-9.9/0-99.9	● / ●		● / ●	● / ●		● / ●	● / ●	● / ●
	CLIMACELL	Incubator with cooling and controlled humidity	● / ●	3		●	-9.9/0-99.9				● / ●		● / ●	● / ●	● / ●
	CO2CELL**	Incubator with CO ₂ - atmosphere	● / ●	3	●		1*-50/120		● / ●			● / ●			

All technical data relate to and are valid for the ambient temperature of 22 °C and the voltage fluctuation of ± 10 %.

* above ambient temperature

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The STERICELL product line complies also with requirements of Medical Device Directive 93/42/EEC.

No matter where you are – our representatives are always close to you all over the world



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