CellIx®

Home for Your Happy Cells





ELLBO

For Life is Precious ®

<image>

Sterilization Cycle: Contamination Control & Elimination

CO2 incubators provide an optimal cell growth environment by maintaining a humidified atmosphere with temperature and carbon dioxide control. These conditions not only promote cell growth, but also the growth of microbes like bacteria, yeast, molds and other fungi. The contamination-reducing features of CellIx® provides optimal cell growth, valuable contamination technologies, control and advanced design for highly critical cell culture applications.

HEPA Filters

Contamination control and elimination have been a major concern in cell culture laboratories. The in-built HEPA filters in CellIx® continuously filter the chamber air volume. The HEPA filter traps the particulate air borne contaminants, ensures the air inside the chamber remains clean and reduces cross contamination. Our HEPA continuously filters the entire chamber volume every 60 seconds and provides ISO Class 5 (Class 100) air quality conditions within 5 minutes of door opening.

Note: The Fan-less design model will have in-line air filters of 0.22 μ m.

Dual Sterilization Modes

While you can manually clean the insides of the CO₂ incubator, this incubator is also equipped with optional dual sterilization method. CellIX[®] offers dual sterilization modes: a 140°C/180°C dry air sterilization cycle of 10hours and sterilization by UV method.

The dry heat sterilization is usually chosen over the other methods, since it eliminates mycoplasma, fungi, yeasts, spores and molds. Our dry heat Sterilization sustains 120 cycles at the given temperature.

Easy to Use

You can activate the sterilization cycle with just a touch of a button.

Safe

Heating is automatically cut by safety device when temperature control fails or there is excessive heating over set point.

Effective

All 6 sides of the chamber are covered with heating wires which bring about uniform heating and provides fast heatup & temperature recovery. Three parts of heating section are controlled and calibrated individually by 3 temperature sensors.

Incubator sterilization can be performed with a 4W UV lamp. The UV light doesn't reach the samples and sterilization can be performed during operation. UV sterilization causes an antimicrobial effect by the damage it causes to a microorganism's DNA when nucleotides absorb high energy photons. This can make UV sterilization an effective solution to reduce contamination.

Contamination Control & Elimination

Cell I x® is optionally available with copper oxide chamber instead of the traditional stainless steel. Copper has natural bactericidal & fungicidal properties.

Customize your incubator with these options



Access port

25mm access port is available at left hand side



UV sterilization

Incubator sterilization can be performed with 4W UV lamp. The UV light doesn't reach the samples and sterilization can be performed during operation.



Hot Air sterilization

Incubator sterilization can be performed using dry heat (140°C-180°C)



Copper oxide cavity

Copper has natural bactericidal & fungicidal properties. Copper surface eliminate microbial contaminants quickly & effectively.



O₂ control

Multi gas supply $(N_2\,\&\,O_2)$ can be made available for both the models



Split Door

5/6 Split Door options available. Helps in lower gas consumption, lower heat loss & faster recovery.

Features	Description	Product Code	
		CellIX® CO2 incubator, 180L	CellIX® CO2 incubator, 80L
Dry Heat Sterilization	Maximum 180°C Note: No need to remove IR CO ₂ sensor /Thermal Conductivity	AI006HS	AI005HS
UV Sterilization	4W UV is placed on the chamber ceiling. The UV light cannot reach the sample andsterilization is operated during culturing.	AI006UV	AI005UV
Split Door	6 Split Door for 180L & 5 Split Door for 80 L, for lower Gas Consumption & lower Heat loss	AI006SD	AI005SD

Auto cut-off safety system for overheating control

Direct heating system on 6 sides for fast temperature recovery

Alarm system

HEPA filtration of gas supply inlets

Sensor Types

Dual beam IR CO₂

sensor

Thermal conductivity

sensor

Construction

- With fan
- Fanless model

Specifications

Model		AI005		A1006	
Volume (L)		80		180	
Decor	ntamination	A1005UV	AI005HS	AI006UV	AI006HS
Temperature (°C)	Range Accuracy Resolution Control	Ambient (+5 to +60) ± 0.1°C (37°C) 0.1°C Digital PID			
CO2	Range Accuracy Resolution Sensor Control Inlet pressure range	0% ~ 20% ± 0.1% (5% CO ₂) 0.1% IR CO2 Sensor / Thermal conductivity Microprocessor 4.5 psi or 0.3 bar			vity
Display		LED Display: 1.Alpha numeric message for HEPA filter replacement 2. Access code to lock the parameters			
Operating panel		Individual 3 Channel Touch Button			
Jacket type		Dry Wall Type (6 sides heat)			
Chamber material		Stainless Steel (304) / (316)			
Number of shelves		C	2	02	03
Internal dimensions (mm)		320 x 350	x 375	400 x 450 x 500	473 x 528 x 710
External dimensions (mm)		420 x 460 x 570 590 x 687 x 790 560 x 66 945		560 x 665 x 945	
Weight (kg)		38		60	80

CO2 incubator details

Model	AI005	AI006
Common accessories	80	180
Chamber capacity: HEPA filters and shelves	AI005-1NO	AI006-1NOw
Dry heat sterilization unit 180°C hot air sterilization	AI005A-1NO	AI006A-1NO
Copper oxide cavity	AI005B-1NO	AI006B-1NO
Glass door (Six regions)	AI005C-1NO	AI006C-1NO
Roller base Table for AI005, Height: 20cm from bottom	AI005D-1NO	AI006D-1NO
Stacking kit	AI005E-1NO	AI006E-1NO
Hole for auxiliary monitoring, Dia: 25mm Located on left side	AI05.	06A-1NO
UV Sterilization unit, 4W UV lamp	AI05.0	06B-1NO
Oxygen Controller	AI05.	06C-1NO
CO ₂ Gas Regulator	AI05.0	06D-1NO
Humidity Pan (3L)	AI05.	06E-1NO
CO ₂ Cylinder 10-50 Kg	AI05.	06F-1NO

Other terms and conditions

1. Base unit includes HEPA filters and shelves.

2. Warranty: 1 years except for HEPA filters.

CellIx-PRO CO₂ Incubator



Optimal Care for Your Cultured Cells!

CellIx-PRO CO2 Incubator

Customize your CellIx-PRO incubator with these options



Data Logger

Ethernet and USB interfaces are available



Sterilization

- **UV Sterilization-**UV Incubator sterilization can be performed with 4W UV lamp.
- Hot Air Sterilization Incubator sterilization can be performed using dry heat(140/180°C)



Copper oxide cavity

Copper has natural bactericidal & fungicidal properties. Copper surface eliminate microbial contaminants quickly & effectively.



O₂ control

Multi gas supply $(N_2 \& O_2)$ can be made available for both the models



Split Door

5/6 Split Door options available. Helps in lower gas consumption, lower heat loss & faster recovery.



Program Storage 80 programs (Optional Feature)

Touch Screen Display: 4"/7"



Auto cut-off safety system for overheating control

Direct heating system on 6 sides for fast temperature recovery

Alarm system

HEPA filtration of gas

supply inlets

Sensor Types

- Dual beam IR CO2 sensor
- Thermal conductivity sensor

Construction

- With fan
- Fan less model

Full S.S Model Available (Optional)

Specifications of CellIx-PRO CO₂ Incubator

Model		AI005P		AI006P	
Sterilization		AI005UV-P	AI005HS-P	AI006UV-P	AI006HS-P
Volume (L)		80L		18	OL
Temperature (°C)	Range Accuracy Resolution Control Uniformity	Ambient + 5°C to 50°C ± 0.1°C (37°C) 0.1°C Digital PID < +/- 0.3°C or better			
CO2	Range Accuracy Resolution Sensor Control Inlet pressure range		0% ± 0.1 0 IR C0 M4.5 p	5~ 20% % (5% CO ₂) .1% D2 Sensor si or 0.3 bar	
Display		LED Display: 1.Alpha numeric message for HEPA filter replacement 2. Access code to lock the parameters			
External Casing Material		Mild Coated Steel/Textured Stainless Steel (S.S 304/ S.S 316)			
Rear Housing Material Chamber Interior Material Humidity Control		Zinc-Plated Stainless Steel (S.S 304/ S.S 316) Corrosion-Resistant Stainless Steel/Copper Oxide Coated (S.S 304/ S.S 316) 93 +/- 2.5% Rh			
Shelves		Minimum 3 Stainless Steel shelves, accommodation for 3 additional grids/shelves			
Heating System		Direct heating system, elements on 6 sides for temp homogeneity and to avoid condensation			
CO ₂ Circulation		 Small fan for CO₂ circulation Fanless Design; <i>in-line air filters of 0.22 μm</i> (optional) 			
Controller Accuracy			0.1°0	C or better	
Mechanical Temperatur	re Limiter	Yes, to protect from overheating in case of controller failure			
PT 100 Sensors		2 independent sensors with auto switch-over in case of failure			n case of failure
Over Temperature Prot	ection	Adjustable controller class 3.3 or limiter class 2, selectable on display			
Display Features		High-res TFT color displays, temp in °C/°F, graphical display			
Data Logger		Stores test data for ~8 years			
Interfaces Program Storage		 5, 20 & 80 programs, display of actual parameters with time (optional with extra cost) 			
Recalibration		Recalibrate without external PC			
Power Supply		230V, 50/60Hz			
Warranty		2 years + 3 years AMC			
Certifications		ISO 9001, CE, IEC-61010			
Documentation		Operation manual, training at commissioning			
Accessories (Optional)		CO2 Cylinder, Double Stage Regulator and Stabilizer			
Warranty		3 Years			





Tri-Gas CO2 Incubator



Optimal Care for Your Cultured Cells!

CellIX Tri-Gas CO₂ Incubator

Our incubators offer unparalleled growth conditions and contamination prevention for vital cell cultures. With a diverse range catering from small to large capacities, these incubators are engineered with patented Water Jacket and Air Jacket systems. This innovative design minimizes condensation risk, ensuring optimal and consistent performance now and in the future. Whether for research or clinical applications, CellIX CO₂ incubators provide reliable and advanced solutions for all your cell culture needs.

Features

• 6 Sides Direct Heating System:

Electric heating wire covers all chamber sides, ensuring uniform temperature and fast recovery. Each of the 3 heating sections is individually controlled and calibrated.

Dry Wall and Air Jacket:

Warm air from the heating wire is preserved between the chamber and insulation layer, enhancing temperature recovery and minimizing heat loss. Requires no regular maintenance.

Dual Beam IR CO₂ Sensor:

Provides fast and precise CO₂ detection, unaffected by temperature and humidity.

Natural Humidification:

Bottom heater warms water in the tray, with the circulation fan distributing moisture throughout the chamber.

No Condensation:

Front door and frame heaters prevent condensation inside the chamber and on the glass door.

Microprocessor PID Control:

Intelligent control for CO₂ density, temperature, alarms, and optional automatic decontamination.

HEPA Filtration:

Ensures clean air and moisture convection within the chamber.

Alarm System:

Buzzer alerts for CO₂ or temperature deviations.

• Over Heating Limit:

Safety device cuts heating if temperature control fails or exceeds set points.

Perforated Shelves:

Stainless steel shelves allow natural air flow and resist rust and contamination.

Options for your Tri-Gas CO₂ incubator



Access Port:

25mm port available on the left side (upon request, additional charge).



COPPER

CHAMBER

UV Sterilization:

4W UV light positioned on the chamber ceiling and next to the circulation fan, sterilizing without affecting samples during culturing. **Copper Chamber:**

Customizable with copper plate chamber for enhanced contamination protection.



HOT AIR

180°C

O2 Control:

Multi-gas supply (N2 & O2) available for all CO_2 incubators.

Hot Air Sterilization:

Maximum 180°C dry hot air with no need to remove the IR CO₂ sensor.



Analog connection port for real-time monitoring even from a distance.

Efficient Gas and Heat Management

- Lower gas consumption and heat loss.
- Faster recovery and easy classification with 5 split doors and 6 split doors option.

Air Jacket with 90°C Steam Sterilization

USB Port & LCD Touch Screen for Real-Time Data

High-Quality Infrared Sensors for Accurate CO₂/O2 Levels

Easy-to-Clean

SMC brand gas circuit valves ensure stable gas concentration with minimal gas consumption.

Push-Pull Shelves for Better Temperature Uniformity

Microcomputer Controller with LCD Display

Three-Liter Water Reservoir for High Humidity

Technical Specification

Specification	Details	
Model	AI006UV-T-1NO	AI006HS-T-1NO
Volume [L]	180	
Temperature Range [°C]	Ambient+5 ~ 60	
Temperature Accuracy [°C]	±0.1 (37°C)	
Temperature Resolution [°C]	0.1	
Temperature Control	Digital PID	
CO ₂ Range	0% ~ 20%	
CO ₂ Accuracy	±0.1% (5% / 37°C)	
CO ₂ Resolution	0.1%	
CO ₂ Sensor	IR CO ₂ Sensor, Range 0~20%	
CO ₂ Control	Microprocessor	
Inlet Pressure Range [bar]	0.6 ~ 0.7	
O ₂ Range	0.6 ~ 85%	
O ₂ Sensor	IR O ₂ Sensor	
Display	LED Display	
Operating Panel	Individual 2-Channel Touch Button	
Jacket Type	Dry Wall Type (six-side gradient heating	g design)
Chamber Material	Stainless Steel (304) / (316)	
Number of Shelves	3/6	
Chamber Dimension [mm]	473 x 528 x 710	
Overall Dimension [mm]	560 x 620 x 945	
Weight [kg]	78	
Humidification Type	Water reservoir in the bottom chambe (90%≤relative humidity≤99%)	r ensures high humidity
Sterilization Type	With 90°C moist heat decontamination	function (95%≤humidity≤99%RH)

Product Portfolio: CellIx[®] CO2 Incubator Series

Product code	Volume (L)	Description
A1005-1NO	80	Inner mirror finishes and new shape with Pre- filter and perforated shelf without dry heat AND UV sterilization Optional: HEPA Filter as per demand, CO ₂ regulator Inner dim: 520 mm X 390 mm X 490 mm
AI005UV-1NO	80	Inner mirror finishes and new shape with Pre- filter and perforated shelf with UV sterilization, CO ₂ regulator Optional: HEPA Filter as per demand Inner dim: 520 mm X 390 mm X 490 mm
AI005HS-1NO	80	Inner mirror finishes and new shape with Pre- filter and perforated shelf with dry heat 140-degree C, CO ₂ regulator Optional: HEPA Filter as per demand Inner dim: 520 mm X 390 mm X 490 mm
AI006-1NO	180	Inner mirror finishes and new shape without dry heat AND UV sterilization, CO ₂ regulator Optional: HEPA Filter as per demand With Fan and Without Fan As per demand 660 mm X 550 mm X 540 mm
AI006UV-1NO	180	Inner mirror finishes and new shape with UV sterilization, CO₂ regulator Optional: HEPA Filter as per demand With Fan and Without Fan As per demand 660 mm X 550 mm X 540 mm
A1006HS-1NO	180	Inner mirror finishes and new shape with 140 dry Heat sterilization, CO₂ regulator Optional: HEPA Filter as per demand With Fan and Without Fan As per demand 660 mm X 550 mm X 540 mm
A1005UV-P-1NO	80	7-inch touch screen display, 20 stored programs, USB port, Inner mirror finish and new shape with Pre- filter and perforated shelf with UV sterilization, dual stage CO₂ regulator Optional: HEPA Filter as per demand/ <i>in-line air filters of 0.22 μm</i> Inner dim: 520 mm X 390 mm X 490 mm
AI005HS-P-140-1NO	80	7-inch touch screen display, 20 stored programs, USB port Inner mirror finish and new shape with Pre- filter and perforated shelf with dry heat 140-degree C, dual stage CO₂ regulator Optional: HEPA Filter as per demand Inner dim: 520 mm X 390 mm X 490 mm
AI005HS-P-180-1NO	80	7-inch touch screen display, 20 stored programs, USB port Inner mirror finish and new shape with Pre- filter and perforated shelf with dry heat 180-degree C, dual stage CO₂ regulator Optional: HEPA Filter as per demand/ <i>in-line air filters of 0.22 μm</i> Inner dim: 520 mm X 390 mm X 490 mm
A1006UV-P-1NO	180	7-inch touch screen display, 20 stored programs, USB port, Inner mirror finish and new shape with Pre- filter and perforated shelf with UV sterilization Optional: HEPA Filter as per demand/ <i>in-line air filters of 0.22 μm</i> Inner Dim: 660 mm X 550 mm X 540 mm
AI006HS-P-140-1NO	180	7-inch touch screen display, 20 stored programs, USB port Inner mirror finish and new shape with Pre- filter and perforated shelf with dry heat 140-degree C, dual stage CO₂ regulator Optional: HEPA Filter as per demand/ <i>in-line air filters of 0.22 μm</i> Inner Dim: 660 mm X 550 mm X 540 mm
AI006HS-P-180-1NO	180	7-inch touch screen display, 20 stored programs, USB port Inner mirror finish and new shape with Pre- filter and perforated shelf with dry heat 180 degree C, dual stage CO₂ regulator Optional: HEPA Filter as per demand/ <i>in-line air filters of 0.22 μm</i> Inner Dim: 660 mm X 550 mm X 540 mm
A1006HS-U-1NO	180	 7-inch touch screen display, 80 stored programs, USB port & Ethernet; Inner mirror finish and new shape with Pre- filter and perforated shelf with dry heat 180 degree C, dual stage CO₂ regulator Optional: HEPA Filter as per demand/ <i>in-line air filters of 0.22 μm</i> Inner Dim: 660 mm X 550 mm X 540 mm
AI006HS-T-1NO	180	 Tri-Gas CO2 Incubator 7-inch touch screen display, 20 stored programs, USB port, O2 Sensor with hypoxia chamber Inner mirror finish and new shape with Pre- filter and perforated shelf with dry heat 180 degree C, dual stage CO₂ regulator Optional: HEPA Filter as per demand/ <i>in-line air filters of 0.22 μm</i> Inner Dim: 660 mm X 550 mm X 540 mm

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