

CellIX[®]

Home for Your Happy Cells



HIMEDIA[®]

For Life is Precious

CELLBIO[™]

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 control technologies, 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.

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 dry air sterilization cycle of 10 hours 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. High heat dry sterilization will kill bacteria that may be located in shadowed crevices as well.

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 heat-up & 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

CellIx® 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)



Copper oxide cavity

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



O₂ control

Multi gas supply (N₂ & O₂) 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® CO ₂ incubator, 180L	CellIX® CO ₂ incubator, 40L
Dry Heat Sterilization	Maximum 140°C Note: No need to remove IR CO ₂ sensor / Thermal Conductivity	AI006HS	AI005HS
UV Sterilization	4W UV is placed on the chamber ceiling and beside the circulation fan. The UV light cannot reach the sample and sterilization is operated during culturing.	AI006UV	AI005UV
Split Door	6 Split Door for 180L & 5 Split Door for 40 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

Split Door option available

Specifications

Model		AI005	AI006
Volume (L)		40	180
Temperature (°C)	Range	Ambient (+5 to +60)	
	Accuracy	± 0.1°C (37°C)	
	Resolution	0.1°C	
	Control	Digital PID	
CO ₂	Range	0% ~ 20%	
	Accuracy	± 0.1% (5% CO ₂)	
	Resolution	0.1%	
	Sensor	IR CO ₂ Sensor / Thermal conductivity	
	Control	Microprocessor	
Inlet pressure range		4.5 psi or 0.3 bar	
Display		LED Display	
Operating panel		Individual 3 Channel Touch Button	
Jacket type		Dry Wall Type (6 sides heat)	
Chamber material		Stainless Steel (304) / (316)	
Number of shelves		02	03
Chamber dimensions (mm)		320 x 350 x 375	473 x 528 x 710
Overall dimensions (mm)		420 x 460 x 570	560 x 665 x 945
Weight (kg)		38	80

CO₂ incubator details

Model	AI005	AI006
Common accessories	40	180
Chamber capacity: HEPA filters and shelves	AI005-1NO	AI006-1NO
Dry heat sterilization unit 125°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	AI05.06B-1NO	
Oxygen Controller	AI05.06C-1NO	
CO ₂ Gas Regulator	AI05.06D-1NO	
Humidity Pan (3L)	AI05.06E-1NO	

Other terms and conditions

1. Base unit includes HEPA filters and shelves.
2. Warranty: 1 years except for HEPA filters.

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