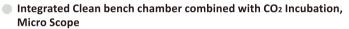
LICES CO2 Incubator And Clean Bench

LICES is Ideal multi-functional work station for Lives Cell Imaging or some applications in IVF. This HEPA filtered Clean bench is equipped with CO2 incubation function such as Temperature, CO2, Humidity control which provide optimal environment for Cell culture in this station. Its special designed front door allows a Microscope installed in bench or it is customized on demand to be fit for a particular microscope. Small microscope stage CO2 incubator gives an advantage incubating Cells on Microscope during microscopy.

Features



In HEPA filtered Clean Bench, temperature/CO₂/Humidity are controlled to provide optimum environment for cell culture. Front door is designed to build with your Microscope. It is also equipped with Hand Access Holes. On demand, the front door may be customized.

- Excellent Temperature Control in Large and Mini chamber Using 5 side heating(heating from all side except front door) in large chamber, the large chamber have excellent temperature control which provides optimal environment for cell culture also, no condensation on lens of Micro scope during live cell imaging. Mini chamber is also equipped with heater inside.
- Effective Vertical Air Flow System by low noise & low vibration blower motor

Blower motor is placed above of HEPA filter and makes vertical Air Flow through HEPA. Air curtain which is formed right behind of front door by blower motor minimizes air flow from outside when hand access port open.

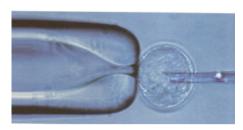
- Precise CO₂ control and appropriate humidity control With two dual beam IR sensors, CO₂ is controlled precisely in large and mini chamber respectively. Humidity in large chamber is controllable by ultrasonic humidifier up to 70%. Mini chamber is also humidified naturally 70~80% by heated water bottle.
- Respective Control for each functions
 Humidity, Temperature, CO₂ in Mini-Chamber and Large Chamber are controlled individually.
- Built-in Fluorescent light and UV Light
- Stainless steel (SUS304) interior chamber
- 2 Access Port for additional devices use in chamber
- Easy Lift-up by hands grip at bottom and side of bench
- Various Customization Options available on request



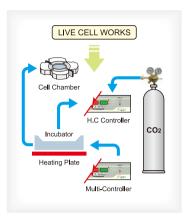




EASY-TO-USE, THE MOST VERSATILE FOR LIVE CELL WORKS









Specification

Work Station (Clean Bench) HEPA Filter 99.99% efficiency on particles of 0.3 µm 660(W)x380(D)x70(H)mm 36W x 1 UV Lamp (Behind Of Filter) 8W x 1 Air Flow Door Open Work Mode (Incubation Mode) (Incubation Mode) Large Chamber Incubation CO2 Sensor CO2 Concentration Range CO2 Accuracy Humidity Operation Range Jacket Temperature Range Accuracy CO4 Accuracy CO5 Accuracy CO5 Accuracy CO5 Accuracy CO6 Accuracy CO7 Accuracy	Items	Unit	LICES (NB-801LCS)
HEPA Filter Dimension mm 660(W)x380(D)x70(H)mm Fluorescent Lamp 36W x 1 W Lamp (Behind Of Filter) 8W x 1 Air Flow Up To Down Flow (Internal Circulation Only) Door Open Open To Front 3 SELECTION MODE (Incubation Mode) 1. Large chamber (Incubation in work station only) 2. Full (Incubation in both large and mini chamber) 3. Mini chamber (Incubation in mini chamber only) Large Chamber Incubation CO2 Sensor Dual Beam IR Sensor CO2 Concentration Range 0% to 20% CO2 Accuracy C ±0.1% at 5% 37°C Humidity Operation Range 0~60% (Adjustable) Jacket Direct wall with air jacket Temperature Range C Ambient +5°C to +60°C Accuracy C ±0.1°C at 37°C Heating Side Direct Heating Control Microprocessor Digital PID Internal Dimension mm 635(W)x480(TOP), 670(Bottom)(D)x720(H)mm	Work Station (Clean Bench)		
Fluorescent Lamp UV Lamp (Behind Of Filter) Air Flow Door Open Open To Front Work Mode (Incubation Mode) Large Chamber Incubation CO2 Sensor CO2 Concentration Range CO2 Accuracy Jacket Temperature Range Accuracy CO3 Control Heating Control IV Lamp (Behind Of Filter) 8W x 1 8W x 1 Up To Down Flow (Internal Circulation Only) Open To Front 3 SELECTION MODE 1. Large chamber (Incubation in work station only) 2. Full (Incubation in both large and mini chamber) 3. Mini chamber (Incubation in mini chamber only) Large Chamber Incubation CO2 Sensor CO4 Sensor CO5 Concentration Range O% to 20% CO5 Accuracy CO5 Accuracy CO5 Accuracy CO60% (Adjustable) Direct wall with air jacket Temperature Range CO5 Accuracy CO60% (Adjustable) Direct wall with air jacket Temperature Range CO7 Accuracy C	HEPA Filter		99.99% efficiency on particles of 0.3μm
UV Lamp (Behind Of Filter) Air Flow Door Open Work Mode (Incubation Mode) Large Chamber Incubation CO2 Sensor CO2 Concentration Range CO2 Accuracy Humidity Operation Range Jacket Temperature Range Accuracy CO3 Accuracy CC4 Accuracy CC5 Accuracy CC6 Accuracy CC7 Accuracy CC7 Accuracy CC7 Accuracy CC8 Accuracy CC9 Accu	HEPA Filter Dimension	mm	660(W)x380(D)x70(H)mm
Air Flow Door Open Work Mode (Incubation Mode) Large Chamber Incubation CO2 Sensor CO2 Concentration Range CO2 Accuracy Humidity Operation Range Jacket Temperature Range Accuracy CAccuracy CCAccuracy CCAccur	Fluorescent Lamp		36W x 1
Door Open Open To Front Work Mode 3 SELECTION MODE (Incubation Mode) 1. Large chamber (Incubation in work station only) 2. Full (Incubation in both large and mini chamber) 3. Mini chamber (Incubation in mini chamber only) Large Chamber Incubation Dual Beam IR Sensor CO2 Sensor Dual Beam IR Sensor CO2 Concentration Range 0% to 20% CO2 Accuracy °C ±0.1% at 5% 37°C Humidity Operation Range 0~60% (Adjustable) Jacket Direct wall with air jacket Temperature Range °C Ambient +5°C to +60°C Accuracy °C ±0.1°C at 37°C Heating 5 Side Direct Heating Control Microprocessor Digital PID Internal Dimension mm 635(W)x480(TOP), 670(Bottom)(D)x720(H)mm	UV Lamp (Behind Of Filter)		8W x 1
Work Mode 3 SELECTION MODE (Incubation Mode) 1. Large chamber (Incubation in work station only) 2. Full (Incubation in both large and mini chamber) 3. Mini chamber (Incubation in mini chamber only) Large Chamber Incubation CO2 Sensor Dual Beam IR Sensor CO2 Concentration Range 0% to 20% CO2 Accuracy °C ±0.1% at 5% 37°C Humidity Operation Range 0~60% (Adjustable) Jacket Direct wall with air jacket Temperature Range °C Ambient +5°C to +60°C Accuracy °C ±0.1°C at 37°C Heating 5 Side Direct Heating Control Microprocessor Digital PID Internal Dimension mm 635(W)x480(TOP), 670(Bottom)(D)x720(H)mm	Air Flow		Up To Down Flow (Internal Circulation Only)
(Incubation Mode) 1. Large chamber (Incubation in work station only) 2. Full (Incubation in both large and mini chamber) 3. Mini chamber (Incubation in mini chamber only) Large Chamber Incubation CO2 Sensor CO2 Concentration Range CO2 Accuracy C ±0.1% at 5% 37°C Humidity Operation Range Jacket Temperature Range C Ambient +5°C to +60°C Accuracy C ±0.1°C at 37°C Heating Control Microprocessor Digital PID Internal Dimension mm Microprocessor Digital PID Internal Dimension Microprocessor Digital PID Internal Dimension	Door Open		Open To Front
2. Full (Incubation in both large and mini chamber) 3. Mini chamber (Incubation in mini chamber only) Large Chamber Incubation CO2 Sensor CO2 Concentration Range CO2 Accuracy CO3 Accuracy CO4 Humidity Operation Range Jacket Temperature Range CO5 Accuracy CO5 Accuracy CO6 Accuracy CO7 Accuracy CO8 Accuracy CO8 Accuracy CO8 Accuracy CO9	Work Mode		3 SELECTION MODE
3. Mini chamber (Incubation in mini chamber only) Large Chamber Incubation CO2 Sensor Dual Beam IR Sensor CO2 Concentration Range O% to 20% CO2 Accuracy Pumidity Operation Range Jacket Temperature Range C Ambient +5°C to +60°C Accuracy Heating Control Internal Dimension Microprocessor Digital PID Micropro(Bottom)(D)x720(H)mm	(Incubation Mode)		1. Large chamber (Incubation in work station only)
Large Chamber Incubation CO₂ Sensor CO₂ Concentration Range CO₂ Accuracy Humidity Operation Range Jacket Temperature Range Accuracy C ±0.1° at 37°C Accuracy C ±0.1° at 37°C Feating Control Internal Dimension Dual Beam IR Sensor 0% to 20% 40,1% at 5% 37°C 40,1% at 5% 37°C And Justable) Direct wall with air jacket Ambient +5°C to +60°C ±0.1°C at 37°C 5 Side Direct Heating Microprocessor Digital PID			2. Full (Incubation in both large and mini chamber)
CO2 Sensor Dual Beam IR Sensor CO2 Concentration Range 0% to 20% CO2 Accuracy °C ±0.1% at 5% 37°C Humidity Operation Range 0~60% (Adjustable) Jacket Direct wall with air jacket Temperature Range °C Ambient +5°C to +60°C Accuracy °C ±0.1°C at 37°C Heating 5 Side Direct Heating Control Microprocessor Digital PID Internal Dimension mm 635(W)x480(TOP), 670(Bottom)(D)x720(H)mm			3. Mini chamber (Incubation in mini chamber only)
CO₂ Concentration Range CO₂ Accuracy CC ±0.1% at 5% 37°C Humidity Operation Range Jacket Temperature Range CC Accuracy CC ±0.1°C at 37°C Accuracy CC ±0.1°C at 37°C Heating Control Microprocessor Digital PID Internal Dimension Microprocessor Digital PID	Large Chamber Incubation		
CO₂ Accuracy Humidity Operation Range Jacket Temperature Range Accuracy Heating Control Internal Dimension C ±0.1% at 5% 37°C ±0.1% at 5% 37°C Adjustable) Direct wall with air jacket Ambient +5°C to +60°C ±0.1°C at 37°C 5 Side Direct Heating Microprocessor Digital PID 635(W)x480(TOP), 670(Bottom)(D)x720(H)mm	CO ₂ Sensor		Dual Beam IR Sensor
Humidity Operation Range Jacket Temperature Range C Accuracy Heating Control Internal Dimension Direct wall with air jacket Ambient +5°C to +60°C Ambient +5°C to +60°C Example 10	CO ₂ Concentration Range		0% to 20%
Jacket Direct wall with air jacket Temperature Range °C Ambient +5°C to +60°C Accuracy °C ±0.1°C at 37°C Heating 5 Side Direct Heating Control Microprocessor Digital PID Internal Dimension mm 635(W)x480(TOP), 670(Bottom)(D)x720(H)mm	CO ₂ Accuracy	°C	±0.1% at 5% 37℃
Temperature Range °C Ambient +5°C to +60°C Accuracy °C ±0.1°C at 37°C Heating 5 Side Direct Heating Control Microprocessor Digital PID Internal Dimension mm 635(W)x480(TOP), 670(Bottom)(D)x720(H)mm	Humidity Operation Range		0∼60% (Adjustable)
Accuracy °C ±0.1°C at 37°C Heating 5 Side Direct Heating Control Microprocessor Digital PID Internal Dimension mm 635(W)x480(TOP), 670(Bottom)(D)x720(H)mm	Jacket		Direct wall with air jacket
Heating 5 Side Direct Heating Control Microprocessor Digital PID Internal Dimension mm 635(W)x480(TOP), 670(Bottom)(D)x720(H)mm	Temperature Range		Ambient +5°C to +60°C
Control Microprocessor Digital PID Internal Dimension mm 635(W)x480(TOP), 670(Bottom)(D)x720(H)mm	Accuracy	°C	±0.1℃ at 37℃
Internal Dimension mm 635(W)x480(TOP), 670(Bottom)(D)x720(H)mm	Heating		5 Side Direct Heating
	Control		
Overall Dimensions mm 712(W)x698(D)x1087(H)mm	Internal Dimension	mm	635(W)x480(TOP), 670(Bottom)(D)x720(H)mm
	Overall Dimensions	mm	712(W)x698(D)x1087(H)mm

Mini Chamber (For Incubation On The Stage Of Micro Scope)

with Chamber (1 of Incubatio	ii Oii Tiic Olage	Of Miloto Geope)
CO ₂ Sensor		Dual Beam IR Sensor
CO ₂ Range		0% to 20%
CO ₂ Accuracy	°C	±0.1% at 5% 37℃
Temperature Range	°C	Ambient +5°C to +60°C
Accuracy	°C	±0.1℃ at 37℃
Heating		5 Side Heating
Humidification		Natural humidification from water bottle
Humidity Range	mm	RH 62 \sim 67% at 20% RH (in work zone)
		RH 78 \sim 83% at 60% RH (in work zone)
Dimensions		185(W) x 115(D) x 40(H)mm
Power	V/Hz	110/220V, 50/60Hz, 460W
Weight	kg	99kg