Tri-gas Incubator

Managing, Optimal Environmental for Cell Growth

LuxMed®
Healthcare Redefined

Tri Gas Incubator is used for precise environmental control in cultivating and experimenting with biological samples. It finds applications in laboratories and research facilities for controlled
environments in cell culture, microbiology, tissue culture, and pharmaceutical testing.

A Tri-gas incubator is a type of cell culture incubator that uses a combination of carbon dioxide (Co2) , oxygen (O2), and nitrogen (N2) to create a stable environment for cell growth.

A Tri-gas incubator is a device that provides a controlled environment for biological samples, such as cells, tissues, and embryos. They are used in research and production facilities for a variety of applications, including cell culture, microbiology, and pharmaceutical testing.

Application

Cell culture - Tri-gas incubators are used to cultivate animal cells.
Tissue engineering - Tri-gas incubators are used to cultivate tissues and perform tissue engineering research.
In vitro fertilization (IVF) - Tri-gas incubators are used to create a controlled environment for embryos during IVF.
Pharmaceutical testing - Tri-gas incubators are used to test the effects of physical and chemical factors on pharmaceutical products.
Stem cell research - Tri-gas incubators are used to research and cultivate stem cells.
Mammalian tissue research - Tri-gas incubators are used to research mammalian tissues and collect secretions

Features

***Precise environmental control -** Tri-gas incubators use sensors to monitor and control temperature, humidity, and gas levels.
Hepa filtration - Tri-gas incubators use HEPA filters to improve air quality and control contamination.
Rapid CO2 recovery - Tri-gas incubators use PID control and sensors to quickly recover CO2 levels after the door is opened.

Technical Parameters:

Model	LM-TGI-100L	LM-TGI-200L	LM-TGI-300L	LM-TGI-400L	LM-TGI-500L
Capacity	80-100 Ltrs	101-200 Ltrs	201-300 Ltrs	301-400 Ltrs	401-500 Ltrs
Temperture Control	Digital PID + Fuzzy Logic				
Temprature Range	2.0°C to 55.0 °C (Compressor and Heating Function)				
CO_2 Range	0% to 20%				
CO_2 Accuracy	±0.1% (5% / 37°C)				
CO_2 Resolution	0.100				
CO_2 Sensor	IR CO Sensor				
CO_2 Control	Touch Screen Advance Microcontroller				
Inlet Pressure Range	0.6 to 0.7bar				
O_2 Range	0.6 to 85%				
O_2 Sensor	IR dioxide sensor				
N2 Display (Inert Gas)	Calculated from Co2 and O2 Sensor Input				
Temperature Control	6 side heating (5 side and 1 door)				
Humidity Control	Built In Humdityfier chamber connected with direct Water Line				
Cooling Control	Compressor				
Display	Toch Screen 7"				
Operating Panel	Touch Panel - Capacity				
Jacket Type	Dry Wall Type (six-side gradient heating design) / Air Heating				
Chamber Material	Stainless Steel (304)				
IP Code	Ip20				
Number of Shelves Power	4 (max 8)				
Chamber Dimension	Dimesion on demand to customized item				
Overall Dimension	Dimesion on demand to customized item				
Weight	178 kg				

M: +91 8130383561, 9350831213 | E: cto@luxmed.in

Scan & Send Message : WhatsApp

Scan & Follow us on : LinkedIn twitter Website