ORBITEK®
Range of Bio Equipment

Anaerobic Chamber

INC -300-H-1-0-AS

Overview

An anaerobic chamber is a sealed, airtight unit that allows scientists to manipulate samples in an oxygen-free atmosphere without exposing them to air. Inside the chamber, oxygen is replaced with a controlled mixture of gases—typically nitrogen (N_2), hydrogen (H_2), and carbon dioxide (CO_2).

Applications

- Ideal for the cultivation and handling of obligate anaerobic, strict anaerobic, and hypoxic microorganisms in microbiology and clinical laboratories.
- Widely used in gut microbiome, pharmaceutical, and biotechnology research
- Supports food, dairy, and environmental testing for anaerobic contamination and processes
- Enables safe handling of oxygen-sensitive samples, enzymes, and compounds
- Ensures continuous anaerobic conditions during incubation, transfer, and analysis for reliable results

SCIGENICS BIOTECH PRIVATE LIMITED -An ISO 9001:2015 Certified Company

Address for communication :
No.2/605, East Coast Road, Neelankarai,
Chennai-600115, Tamiladu, India.

For Enquiry:
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Parameter	Specification
Temperature Range	Ambient +5°C to 50°C
Humidity Range	Up to 80% RH
O2 Level & Sensor	<100 PPM under steady-state anaerobic operating conditions (optical fluorescence-based oxygen sensor)
Chamber Capacity	300 Litres
Internal Illumination	1 LED light for chamber visibility
Material of Construction (MOC)	Interior: SS304 Stainless SteelExterior: MS Powder Coated SteelFront Door: Acrylic
External Dimensions (W × D × H)	1415 × 1085 × 1450 mm
Internal Dimensions (W × D × H)	930 × 625 × 510 mm
Airlock Chamber	For sample entry/exit, capacity: 20 Petri plates (90 mm × 15 mm)
Glove Ports	2 Ports on front door
Incubation Shelves	3 shelves
Petri Plate Capacity	Up to 400 plates (90 mm × 15 mm)
Catalyst System	4 rechargeable Palladium catalysts for anaerobic condition
Gas Monitoring & Alarm	Alarm for low premixed gas (N_2)
Commissioning Feature	Commissioning cycles switch
Door Indicators	Inner door / Outer door status indicator
Control System	LCD display with HMI touchscreen
Displayed Parameters	Temperature, Humidity, Pressure level, Anaerobic gas level
Data Logging	USB port (1 no.) with up to 1 month continuous storage (4 TB pen drive support)
Safety Features	Thermostat cut-off for over-temperature protection
Condensate Management	Inbuilt condensate controller
Pressure Safety	Pressure relief valve
Electrical Safety	RCCB protection
Power Failure Protection	Non-volatile memory with automatic restart
Electrical Requirement	230V, 16 Amps, 50 Hz, Single Phase
Certification	CE Certified
Installation Requirement	Air-conditioned room recommended (23°C ±2°C) for optimal performance

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