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SMART CO_2 INCUBATOR

All Smart Model Available

Specification

Parameters/Models	BST-ICB50	BST-ICB80L	BST-ICB150	BST-ICB180S
Microprocessor based control	Proprietary algorithm to control oxygen, Co2, Humidity and Temperature			
Digital display	LCD Display	LCD Display	LCD Display	Touch screen LCD Display
Co2 sensor	IR co2 sensor, varies from 0.00 % to 20 %, accuracy/ resolution is 0.1 %			
Temperature	PID controller, ambient +5° C to 60° C, accuracy ± 0.5° C			
Humidity	Sensors based controlling, 40 to 99 %, accuracy ± 5 %			
Sterilization	UV Sterilization	UV Sterilization	Heat Sterilization	Heat Sterilization
Shaker	No	No	No	Yes
Shaker Speed	No	No	No	100- 250 rpm
MOB	Inner chamber made up of Stainless Steel and outer powder coating			
Light	Florescence light			
Filters	Hepa filters at gas inlet			
Oxygen sensors	Solid state oxygen sensors, range 0.0 % -0.1 % to 20 %			
Oxygen sensors	Optional	Optional	Optional	Optional
Capacity	50 L	80L	150L	180L
Inner Dimensions, L x D x H mm	375 x 375 x 375 mm	450 x 450 x 450 mm	550 x 550 x 600 mm	550 x 600x 600 mm
Outer Dimensions, L x D x H mm	550 x 550 x 590 mm	650 x 650 x 750 mm	750 x 750 x 900 mm	750 x 800 x 850 mm

OPTIONAL FEATURES







1. IR sensor would be places inside the chamber for measure the condition.
2. Interior: Shiny, stainless steel Interior Components includes inside chamber side ducts, shelf channels, four shelves, and humidity pan of 4 liters with coved corners for easy cleaning, reduced chance of harboring contamination in the corners.
3. Sturdy shelves and supports should be readily removed without tools for easy cleaning, autoclaving or adjustment
4. System would be designed with directed airflow which should promote uniformity, keeping cells at their optimum growth temperature.
5. System preferably supplied with validatable 100% HEPA filtration, which should ensure that Class 100 air quality is achieved within five minutes of the door closing.
6. The system would filter out entire chamber air through HEPA Filter every 60 second ensuring class 100 air quality.
7. System would have good quality inner door gasket which should be removable and cleanable, and adjusts continually to ensure a tight seal.
8. System would have Microbiological filters on gas inlet and sample port to reduce the risk of contamination.
9. The system would have Access Code to avoid unauthorized personnel from changing the set points, calibration, or configuration.
10. Over temperature protection: The incubator should be equipped with a secondary temperature monitoring system to monitor the air temperature inside the cabinet & will stop automatically in case of over temperature.
11. System would have a password protected thermal decontamination process at minimum 140oC or more with keeping the IR sensor inside the chamber while decontamination cycle.
12. Audible alarm would activate if the outer door is opened during the cycle and the temperature is 60°C (140°F) or greater to ensure safety in the lab
13. System would require access code to initiate decontamination cycle thereby preventing accidental initiation of the cycle.21. The Microprocessor Control PID based /PLC system with over temperature protection WOULD give clear cut written message for the errors, should guide through

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SMART HORIZONTAL AUTOCLAVE (CYLINDRICAL/RECTANGULAR)

Model No -NCMHACLVS

Specification

Locking Type- Redial locking
MOC-Double walled Outer SS304 , Inner SS 304,
Capacity-52 ltr,
Load-4KW,6KW,8KW,9KW

Type-Automatic(programmable sterilization timer ,high temp safety alarm, automatic cycle abortion at high temp limit, commutated saturated stem pressure indication, independents air exhaust and sterilization set points with RS485 interface with 21CFR software for pc recording.

Product is ISO9001-2015,CE certified



Rectangular



Cylindrical

Features:

Available in rectangular and cylindrical shapes	Double and triple walled construction
Inner tank capacity up to 240 liters or more	Single and double doors
Automatic pressure locking device	Immersion type heating element
Neoprene rubber gasket door seal	Automatic vacuum breaker
Low water cut-off device	Hydraulic testing up to 2.5 times working pressure

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INSECT GROWTH CHAMBER

Model No-NCM-IGC

Specification

Temperature Range: 5°C-70°C
Temperature Control: ±0.5°C
Temperature Sensor 3-wire RTD
Humidity Range: Above room humidity to 98% RH
Humidity Control: ±3% RH
Humidity Sensor Capacitive
Interior Dimensions: 24"×24"×30"I
llumination System: Illumination system controlled by digital programmable timer.
Interior Construction Type 304, 2B Finish, Solid Stainless Steel.
Exterior Construction Cold Rolled Steel, Powder Coated
OPTIONAL: Touch Screen , SIMENSE HMI7", IOT Based Mobile View



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Laminar Airflow Workstation

Model No-NCM-LAW

Specification

TOUCH SCREENVertical Laminar Flow : Outer MS Powder Coated , Inner Table SS304 thick 22 gauge (Imported) with hand grip & Perforation.Control System ; PLC , HMI 4" for timmer of UV, Flourecent, Motror speed, Differential pressure 0.0-25mm W/c for accurate control with data transfer facility.Parameters Specifications Air flow Vertical Air Flow Working size (WxDxH), ft 3x2x2 Configuration Freestanding benchtop Hepa filter 1 Prefilter 1 Certification CE European or Equivalent, ISO 13485 Filter Details Mini pleat HEPA Filter Efficiency: 99.99% down to 0.3 micron or better, MOC Anodized Aluminium or better/equivalent Pre Filter detail Efficiency: 95% down to 5 micron or better, MOC Anodized Aluminium or better/equivalent Material used for the workbench SS 304 grade Front door material Glass or equivalent Side Panel material Acrylic or equivalent Front door type Front Sliding door, not motorized, provision to open up to a certain height by sliding the door Display LCD display or equivalent/better, availability of display: Yes Static pressure measurement Magnehelic Gauge or equivalent 1 SetInstrumentation & Accessories U.V Light, LED Lighting to provide an intensity of minimum 600 Lux Other Accessories 1. On /Off Switch for Motor Blower 2. Electrical Interlocking between U.V. Light and Florescent light 3. Levelling Legs. 4. Castor wheels. Blower motor Dynamically &Statically balanced blower for less vibration & noise level



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MICROTOME

Model No-NCM-MCTS

Specification

Vertical Stroke 70 mm
Nominal Voltage 220V,50Hz/110V,60Hz
Fine Thickness Range 0.5 um-100 um
Packing: Type Box
Retraction Adjustable or 5-100 um
Max Specimen Size 50x50 mm
Operation Semi-automatic
Minimum Setting Value 0.5um
Horizontal Object Feed 28 mm
Feed Motion Via Stepper Motor
Specimen Orientation and Y Axis
Universal 8 Degree Specimen
Orientation Z Axis Upto 360 Degree



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Smart Multimeter with Ion selective electrodes for water quality testing

Model No NCM-MION

(5 Point - Calibration for pH & Ion)



Benchtop ION/pH/mV/°C Meter

NCM-MION is a high accuracy meter, used for measuring the ION concentration, ORP and pH values of liquids. The meter widely used in environmental studies, chemical labs, swimming pools etc.

Salient Features

- During the pH mode, Up to 5 points push-button calibration with auto-buffer recognition
- Selectable pH buffer standards and temperature units.
- Automatically calculates and displays electrode slope after calibration.
- During the ion mode, 2 to 5 points push-button calibration from low to high concentrations
- Direct readout ion concentration simplifies the elaborate measurement process.
- Automatic Temperature Compensation (ATC) ensures highly accurate measurements over the entire range.
- Automatic endpoint function freezes the stable measured values for easy reading and recording data.
- Calibration due reminder prompts you to calibrate the meter regularly.
- Help message as a operational guide to helps you understand how to use meter.
- Setup menu lets user customizes buffer standards, calibration points, stability conditions, resolution, measurement units, date and time to meet measurement requirements.
- Reset function can resumes all settings to factory default values.
- Built-in real-time clock stamps stored data to meets GLP standards.

STANDARD ACCESSORIES : pH Electrode, pH Buffer, Temperature Probe, Electrode Stand, Power Adaptor Instruction Manual

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sales@adcscientific.com | service@adcscientific.com
www.adcscientific.com | Whatsapp +91 9331812266

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ATLANTA DRUGS & CHEMICALS

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Smart Multimeter with Ion selective electrodes for water quality testing

Model No NCM-MION

(5 Point - Calibration for pH & Ion)



Benchtop ION/pH/mV/°C Meter

NCM-MION is a high accuracy meter, used for measuring the ION concentration, ORP and pH values of liquids.
The meter widely used in environmental studies, chemical labs, swimming pools etc.

Specification

Colour Capacitive touch screen with software control facility.
Can store 2100 sets of test data, which can be saved and transferred to USB drive with Excel format.
Power: Universal AC adapter and with Rechargeable Lithium Battery (Included).
Concentration Range: (0 19999),
Can Switch 6 kind of Concentration units: ug/l, mg/L, g/L, mol/L, mmol/L, ppm.
Concentration Resolution: 4 significant digits (0.001,0.01,0.1,1)
Can be operated through 5 Amp plug and Battery.
mV Range-+/-1999.9mV
pH Range—2.000-20.000pH
Accuracy: ±0.1mv or 0.03%
Temp range: (0 to 100)
Accuracy: ±0.1
Output Through USB/Bluetooth/RS485
Battery life 1000 Hour.
Type: Lithium battery.
ISE- Fluoride, Chloride , Bromide, Ammonia,
Brand name and model name comes in the display.

STANDARD ACCESSORIES : pH Electrode, pH Buffer, Temperature Probe, Electrode Stand, Power Adaptor Instruction Manual

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sales@adcscientific.com | service@adcscientific.com
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SMART PRECISION DRYER

Model No-NCMPDYR

Specification

MOC-Outer ms powder coated , inner polish SS 304 ,
TEMP RANGE-ambeint to 250deg c
Accuracy +/-.1 degc,
SS wire mesh tray 3 pc,
Uniformity of temp by - Blower ,
Inner size-24x36x36,
Control Panel - Touch screen HMI + Plc+RFID lock based temp. Controlled (temp graph,data analysis+history-3yrs+rs 485 interface for data print, software



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REFRIGERATOR TEMP. SMART CONTROL

Model No-NCMRFRSMART

Specification

CONTROL PANEL -Touch screen HMI + PLC+RFID lock based
MOC- Outer SS 304 polish 1.6mm thick(Plastic Coated) , inner SS 304 polish,
Temp range -4 degC to 40 degC ,
Temp control-PLC based (Temp graph, data analysis+history-3yrs+rs 485 interface for data print, software)
Accuracy +/- 0.1DEGC
Insulation-puf
Internal capacity- 160ltr.
Product ISO9001-2015,CE certified



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SMART Environmental Shaker Incubator (Vertical)

Model No-ENVSKRS

Specification

MOC-Outer ms powder coated , inner ss304,
Vertical model,
Available capacity-10x250ml ,12x250 ml, 16x250ml
Tray- 3 no SS304 ware mesh tray,
Shaking speed - 40-370rpm,
Motor control- VFD controlled (with out pulley)
Temp Range -4Deg C-60 degC,
Humidity-45- 95%,
Touch screen HMI +IOT+ PLC+RFID lock based (Temp+Humidity+RPM graph, data analysis+history-3yrs+rs 485 interface for data print, software) all should be in one screen& controlled.
Product IS ISO 9001-2015,CE certified

