

CENTRAL INCUBATOR



MITTAL INDUSTRIES

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AVAILABLE : INDIA

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BACTERIOLOGICAL INCUBATOR

WE ARE MANUFACTURERS OF BACTERIOLOGICAL INCUBATORS IN INDIA SINCE 1990. OUR BACTERIOLOGICAL INCUBATORS ARE WIDELY USED FOR DAY TO DAY BACTERIOLOGICAL AND BIO CHEMICAL OXYGEN DEMAND DETERMINATION TESTS IN VARIOUS LABORATORY APPLICATIONS. WE SPECIALIZE IN BOTH STANDARD AND CUSTOMIZED MODELS, SPECIFICALLY DESIGNED TO MEET THE CHALLENGING DEMANDS OF VARIOUS SCIENTISTS FOR INDIVIDUAL AND SPECIALIZED RESEARCH APPLICATIONS. OVER A SHORT PERIOD OF TIME WEIBER BRAND HAVE BEEN ESTABLISHED AS RELIABLE EXPORTERS OF BACTERIOLOGICAL INCUBATORS IN INDIA, CATERING TO THE VAST MARKETS IN SOUTH EAST ASIA, MIDDLE EAST, AFRICA AND EUROPE. APART FROM THAT WE ARE SUPPLYING OUR BACTERIOLOGICAL INCUBATORS IN INDIA , CATERING TO A VARIETY OF CUSTOMERS RANGING FROM DEFENCE INSTALLATIONS, RESEARCH LABORATORIES, EDUCATIONAL INSTITUTES AND VARIOUS R AND D LABORATORIES OF LEADING NATIONAL AND MULTINATIONAL COMPANIES.

SALIENT FEATURES OF BACTERIOLOGICAL INCUBATOR

- VERSATILE USAGE
- ERGONOMIC DESIGN
- ENERGY EFFICIENT
- LONG LIFE
- LOW MAINTENANCE
- CALIBRATION AND PROTOCOL DOCUMENTATION

CONSTRUCTION

BACTERIOLOGICAL INCUBATORS ARE DOUBLE WALLED CONVECTION HEATED UNITS. OUTER BODY OF OUR INCUBATORS ARE CONSTRUCTED OUT OF THICK PCRC SHEET DULY PRE-TREATED WITH PRIMERS AND RUST PROOFING AND PAINTED WITH LONG LASTING STOVE ENAMEL OR ELEGANTLY POWDER COATED.THE INNER CHAMBER IS MADE OF HEAVY GAUGE STAINLESS STEEL SHEET OF SS-304 GRADE. THE GAP BETWEEN THE WALLS IS FILLED HIGH GRADE MINERAL GLASS WOOL, WHICH ENSURES MAXIMUM THERMAL EFFICIENCY IN OUR BACTERIOLOGICAL INCUBATORS. THE UNIT IS MOUNTED ON A STURDY STEEL FRAME AND PROVIDED WITH CASTOR WHEELS (LARGE SIZED MODELS ONLY) FOR EASY MOVEMENT INSIDE THE LABORATORY. THE UNIT IS PROVIDED WITH 1-3 STAINLESSSTEEL SHELVES (AS PER THE INNER SIZE).

HEATING/COOLING

INDIRECT HEATING SYSTEM IS PROVIDED IN OUR UNITS, COMPRISING OF AIR HEATERS MADE OF HIGH GRADE KANTHAL A-1 WIRES OFSUITABLE WATTAGE. THE WARM AIR IS EVENLY DISTRIBUTED THROUGHOUT THE CHAMBER THROUGH EFFICIENT MOTOR FANS ENSURING A VERY GOOD TEMPERATURE SENSITIVITY.

TEMPERATURE RANGE/ TEMPERATURE SENSITIVITY

TEMPERATURE RANGE OF OUR STANDARD BACTERIOLOGICAL INCUBATOR MODELS ARE 5° C ABOVE AMBIENT TO 90° C. HOWEVER WEHAVE THE CAPACITY TO MODIFY THE SAME TO SUIT THE INDIVIDUAL SPECIALIZED REQUIREMENTS OF OUR CUSTOMERS.

TEMPERATURE INSIDE OUR BACTERIOLOGICAL INCUBATORS ARE CONTROLLED WITH A SENSITIVITY OF + 0.5° C OR BETTER.

TEMPERATURE CONTROL

THE TEMPERATURE INSIDE THE BACTERIOLOGICAL INCUBATOR IS CONTROLLED BY INTELLIGENT PROGRAMMABLE TEMPERATURE CONTROLLER AND INDICATOR. THIS CONTROLLER IS BASED ON THE MICRO CONTROLLER NANO WATT TECHNOLOGY AND ITS ERGONOMIC DESIGN SUITS FOR

ANY SPECIFIC REQUIREMENT OF THE INCUBATOR LIKE DATA LOGGER FACILITY, THERMAL AND DOT MATRIX INTERFACE, DIRECT DATA LOAD FACILITY IN COMPUTER OFFICE AUTOMATION SOFTWARE LIKE MS-WORD AND EXCEL AND MANY OTHERFEATURES LISTED IN THE SPECIFICATION BELOW.

FRONT PANEL NOTE

FRONT PANEL OF OUR UNITS COMPRISES OF ON/OFF SWITCHES HEATING AND MAINS INDICATOR LAMPS, TEMPERATURECONTROLLERS/THERMOSTAT.

TEMPERATURE CONTROL

THE TEMPERATURE INSIDE OUR BACTERIOLOGICAL INCUBATOR IS CONTROLLED EITHER THROUGH HYDRAULIC TYPE GERMAN THERMOSTAT(SENSITIVITY + 2° C) OR THROUGH SOLID STATE OR MICRO-PROCESSOR BASED TEMPERATURE CONTROLLERS CUM INDICATORS.

STANDARD SIZES

Temperature Control		
Temperature variation (time)	± °C	0.5
Temperature deviation (spatial)	± °C	0.5
Readability/ Set ability	°C	0.5
Temperature range ***	°C	5°C above ambient to 90°C
Sensor thermocouple		Type K
Controller		microcontroller nano watt
Display		LCD
Adjustable alarm limits (visual and acoustic)		Optional

<p>Safety thermostats</p> <p>Temperature variation (time)</p> <p>Sensor thermocouple</p> <p>Automatic setting</p> <p>Adjustable limits</p>	<p>± °C</p>	<p>3</p> <p>Type K</p> <p>Yes</p> <p>Yes</p>
<p>Light control</p> <p>Readability/Setability</p> <p>Light intensity in the middle</p> <p>Light intensity in both sides</p>	<p>%</p> <p>Lux</p> <p>Lux</p>	<p>7% (optional feature)</p> <p>As Desired (optional feature)</p> <p>As Desired (optional feature)</p>

<p>Accessories</p> <p>Timer (1-999 minutes or hours)</p> <p>Real Time Program</p> <p>Printer Report Program</p> <p>Serial Data Port</p> <p>Inspection window in door</p> <p>Castors, lockable</p>	<p>R232</p>	<p>optional</p> <p>optional</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>optional</p>
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<p>Shelves</p> <p>Standard/ max</p> <p>Dimensions w,d</p>	<p>mm</p>	<p>1- 3 (depending on the internal size)</p> <p>As per the individual model</p>
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<p>Power Consumption</p> <p>Nominal voltage</p> <p>Frequency</p>	<p>-</p> <p>-</p>	<p>230, 1~</p> <p>50/60</p>
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	INNER CHAMBER SIZE (WXDXH)	VOLUME (LITRES)
(A)	300 X 300 X 300 MM	30 LTRS
(B)	355 X 355 X 355 MM	45 LTRS
(C)	455 X 455 X 455 MM	95 LTRS
(D)	455 X 455 X 605 MM	125 LTRS
(E)	605 X 605 X 605 MM	224 LTRS
(F)	605 X 455 X 910 MM	252 LTRS
(G)	605 X 605 X 910 MM	336 LTRS

DATA ACQUISITION AND CONTROL SYSTEM FOR BACTERIOLOGICAL INCUBATOR

UNIVERSAL DIGITAL DATA RECORDER WITH COMPUTER

THIS IS UNIQUE MODULE WHICH CAN BE INCORPORATED WITH OUR BOD INCUBATORS TO LOG IN TEMPERATURE AND ENVIRONMENT RELATED DATA WITH A HELP OF A DATA LOGGER UNIT WHICH HAS A PC CONNECTIVITY BY MEANS OF RS 232 C INTERFACE. THIS DATA IS THEN ANALYZED AND FORMATTED WITH THE HELP OF OUR UNIQUE USER FRIENDLY ANALYSIS SOFTWARE TO ENABLE THE USER TO GET A FORMATTED AND ANALYZED REPORTS OF VARIOUS INPUTS DURING THE FULL OPERATION CYCLE OF THE EQUIPMENT. THIS IS AN IDEAL MODULE FOR PHARMACEUTICAL LABORATORIES, PROCESS CONTROL APPLICATIONS AND HIGH RESEARCH PROJECTS WHERE MAINTAINING A VIABLE RECORD OF THE PERFORMANCE OF THE EQUIPMENT IS VERY ESSENTIAL.

FEATURES

- OUR SYSTEM INCORPORATES MULTIPLE DEVICES SUCH AS IN LINE PROCESS INDICATORS, ENVIRONMENT SCANNERS AND TEMPERATURE OR HUMIDITY CONTROLLERS.
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ENVIRONMENT SCANNERS AND TEMPERATURE OR HUMIDITY CONTROLLERS.

- PROVIDES A STECH CABLE FOR DIRECT INTERFACE TO ANY DOT MATRIX OR LASER PRINTER FOR ONLINE OR OFFLINE DATA RECORDS PRINTING**
- IT HAS BULK DATA STORAGE CAPACITY WITH HIGH DATA RETENTION LIFE.**
- FACILITY TO OBTAIN NICELY FORMATTED PRINT OUT OF THE LOGGED DATA OR RECORDS WITH PROPER HEADERS.**
- OUR SYSTEM PROVIDED FACILITY TO PROGRAM RECORDING INTERVAL WITH VARIOUS OPTIONS TO SUIT INDIVIDUAL REQUIREMENTS.**
- IT IS PROVIDED WITH THE FEATURE TO ADJUST OR SELECT BAUD RATE FOR ANY SERIAL COMMUNICATION PORT.**
- OUR SYSTEM IS PROVIDED WITH USER FRIENDLY CUSTOM DEVELOPED SOFTWARE WHICH OBTAINS AND ANALYZE THE DATA AND FACILITATES THE USER TO GENERATE REPORTS AND GRAPHS ETC.**