



EIE INSTRUMENTS PVT. LTD.

www.eieinstruments.com, www.eiepharmatest.com, www.eieceratest.com, www.eiepetrotest.com



B-14, Zaveri Industrial Estate, Opp. Shyam-Villa Society, Near Saraswati Vidhyalaya, Kathwada GIDC road, Near Singarva Bus Stand, Off. National Highway, Ahmedabad – 382430, Gujarat, India

Email : service@eieinstruments.com , kunal@eieinstruments.com

Telephone: +91-79-66040613, +91-79-66040600

Organization's ISO 9001:2015 Certificate

QUALITY MANAGEMENT SYSTEM

Certificate of Registration



This is to Certify That The Quality Management System of

EIE INSTRUMENTS PVT. LTD.

A/1301, BVR EK, OPP HOTEL INDER RESIDENCY, NEAR GUJARAT COLLEGE, ELLISBRIDGE, AHMEDABAD-380006
GUJARAT, INDIA.

has been assessed and found to conform to the requirements of

ISO 9001:2015

for the following scope :

MANUFACTURER & SUPPLIER OF LABORATORY TESTING INSTRUMENTS.

Certificate No	22DQJT93	
Initial Registration Date	: 27/06/2022	Issuance Date : 27/06/2022
Date of Expiry*	: 26/06/2025	
1st Surve. Due	: 27/05/2023	2nd Surve. Due : 27/05/2024



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Dear valued customer,

We are thankful of you for your keen interest in our company products. We hope you enjoy using them and find them to be helpful and reliable. We greatly appreciate your business and the opportunity you have provided us to assist you. You have joined a selected group of customers who have switched to the technologically superior and quality enhanced laboratory testing products.

Time has changed, so does the technology. Your purchase lists you on the cutting edge of the 21st century technology. To help you get the most out of your EIE Instruments Pvt. Ltd. products, we have created this instruction manual that is an excellent way of expressing and maintaining your trust in EIE's - superior quality testing products. Our continued efforts and commitment are to provide you with the best and efficient services after sales, prompt attention and the highest level of customer satisfaction. If for any reasons, you have questions or comments, we are delighted to hear from you. We welcome your feedback for further improvement in our product(s). We would be happy to help you in any way we can. You can contact us on +91-9909903582 or send us an email at service@eieinstruments.com/kunal@eieinstruments.com. You can expect us to respond to your call or email within 24-48 working hours.

Once again, we would like to thank you for your trust and kind patronage. We look forward to serve you better in the future.

Yours sincerely,

EIE Instruments Private Limited

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1 Introduction to EIE – 202 BOD Incubator

BOD Incubator are enclosures that are used to detect the effects of pre-specified circumstances/environmental conditions on biological materials, industrial materials, biologically grown plants, papers, Medical adhesives and medical drugs as well as on electronic components. These incubators are used for Media Preparation & Culture growth at temperatures of 22.5°C ($\pm 2.5^\circ\text{C}$) & 32.5°C ($\pm 2.5^\circ\text{C}$) in Microbiology or ARD labs across the world.

EIE – 202 B.O.D Incubator is manufactured in different measurement sizes and models as per the customer specific requirements. The chamber is characterized by ideal visible light, air blower for uniform temperature distribution, related sensors and Microprocessor based Digital Temperature Controller for accurate control accuracy. Also, the control and documentation software supplied with the unit enables the user to make even better use of devices and systems by simplifying the data recording process and data archiving process. All warning and alarm messages are also recorded within the software at an interval of predefined time and, if necessary, can also be transmitted to the person in charge of the system. To enhance reliability, temperature conditions need to be monitored and controlled throughout the test.

2 Principle of Incubator

B.O.D Incubators are engineered with highly efficient horizontal airflow system to provide maximum temperature uniformity throughout. An Incubator works on the following principle.

BOD Incubator (Bio-Oxygen Demand) are used to maintain temperature for test tissue culture growth, storage of bacterial cultures and **incubation** where high degree of constant temperature accuracy is required. **EIE – BOD Incubators** provide with accurate conditions and uniformity throughout the chamber.

3 Delivery and Uncrating of the unit

- 1) Inspect equipment and shipping crate immediately upon receipt. If any damage is apparent, immediately discuss it with the delivery person and contact the transportation company immediately. Make notes of any damages on the bill of landing.
- 2) Retain all shipping material for later inspection.
- 3) Check packing slip carefully and ensure all materials have been received as indicated in the packing slip.
- 4) Instrument is supplied in enclosed wooden case. Unpack the wooden case, locate and count the number of accessories and main working unit. Remove packing strip from surroundings of the instrument and all its accessories. Please inspect and note whether any part of the instrument is damaged or any accessory is missing according to packing slip? If it is so, then immediately make note of it and report to the manufacturer.

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- 5) Due to the vibration incurred during shipping and handling, it is possible that mechanical connection could become loose. Inspect all connection to ensure that they are secure.
- 6) After visual inspection, if everything is found to be okay, transit the instrument to suitable safe place where it is intended to install. **Caution: Heavy weight, protect yourself first. Handle with care.**
- 7) Recycle the packing material and wooden box. Do not throw it away for environment protection.

4 Installation instructions

- 1) Remove packing strip from its surroundings and transit it to a suitable safe place where it is intended to install. **Caution: Heavy weight, protect yourself first. Handle with care.**
- 2) Place the equipment on a plain, even and sturdy surface leaving 5-6" space away from the wall.
- 3) Do not place the equipment in a draft, sunlight or near a place of equipment, which emits heat as well as electromagnetic conduction emission. Do not install unit in a corrosive environment. A corrosive environment may lead to poor performance and deterioration of unit.
- 4) Recycle the packing material.
- 5) Unlock the door and inspect whether or not the accessories are included.
- 6) Check the electrical specifications label located on back of the equipment. Make sure the power specifications must confirm to your local standard.
- 7) Plug the power cord into a properly grounded outlet. Read this instruction manual carefully and abide to its requisites.
- 8) It is recommended to install the instrument near the place where water supply is easily reachable.

Caution: Do not put more than 10 lbs (4.5 kg) on top of unit.

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5 Component diagram of BOD Incubator

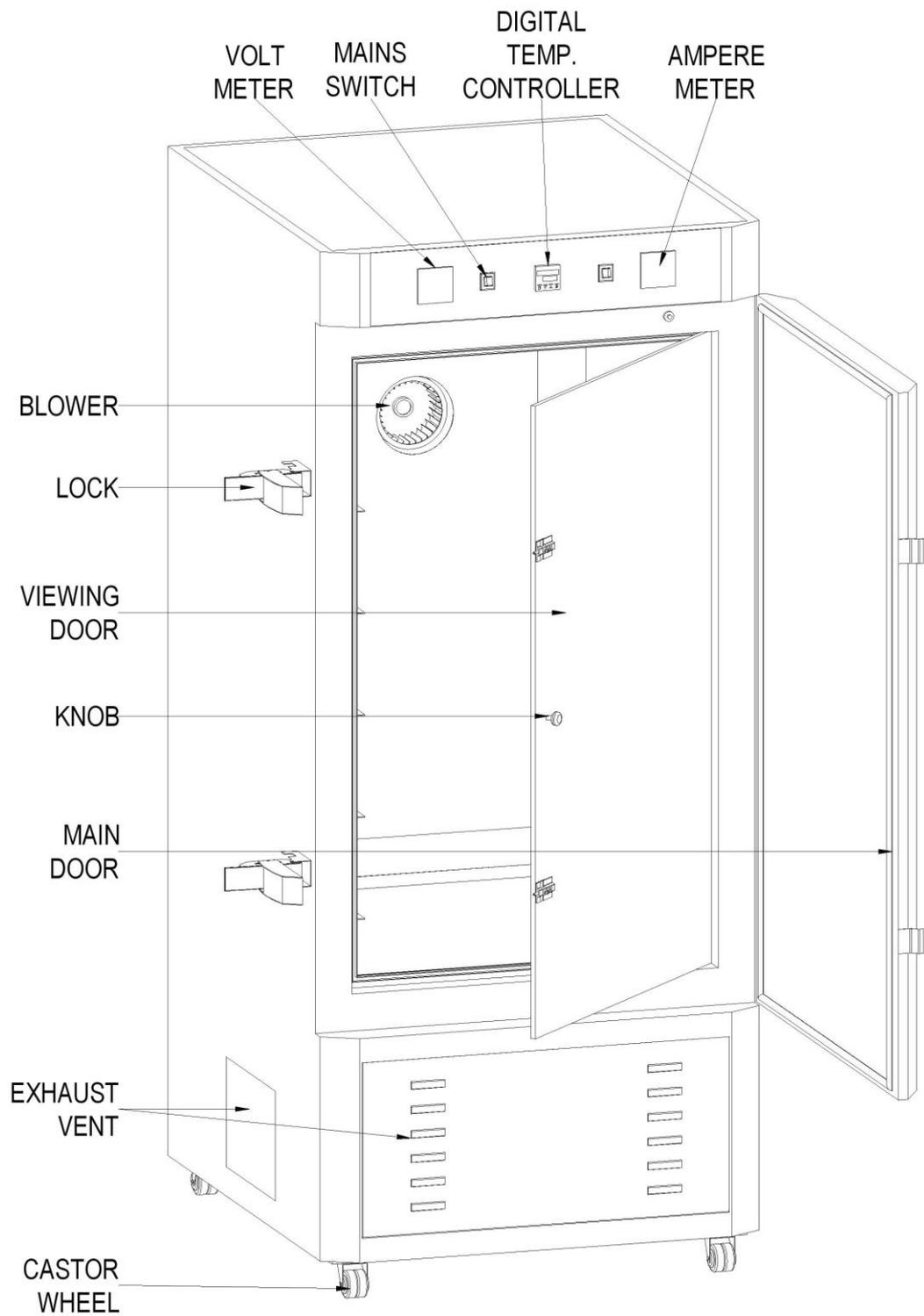


Figure 1 Component diagram of BOD Incubator

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6 Electric Circuit Diagram of BOD Incubator

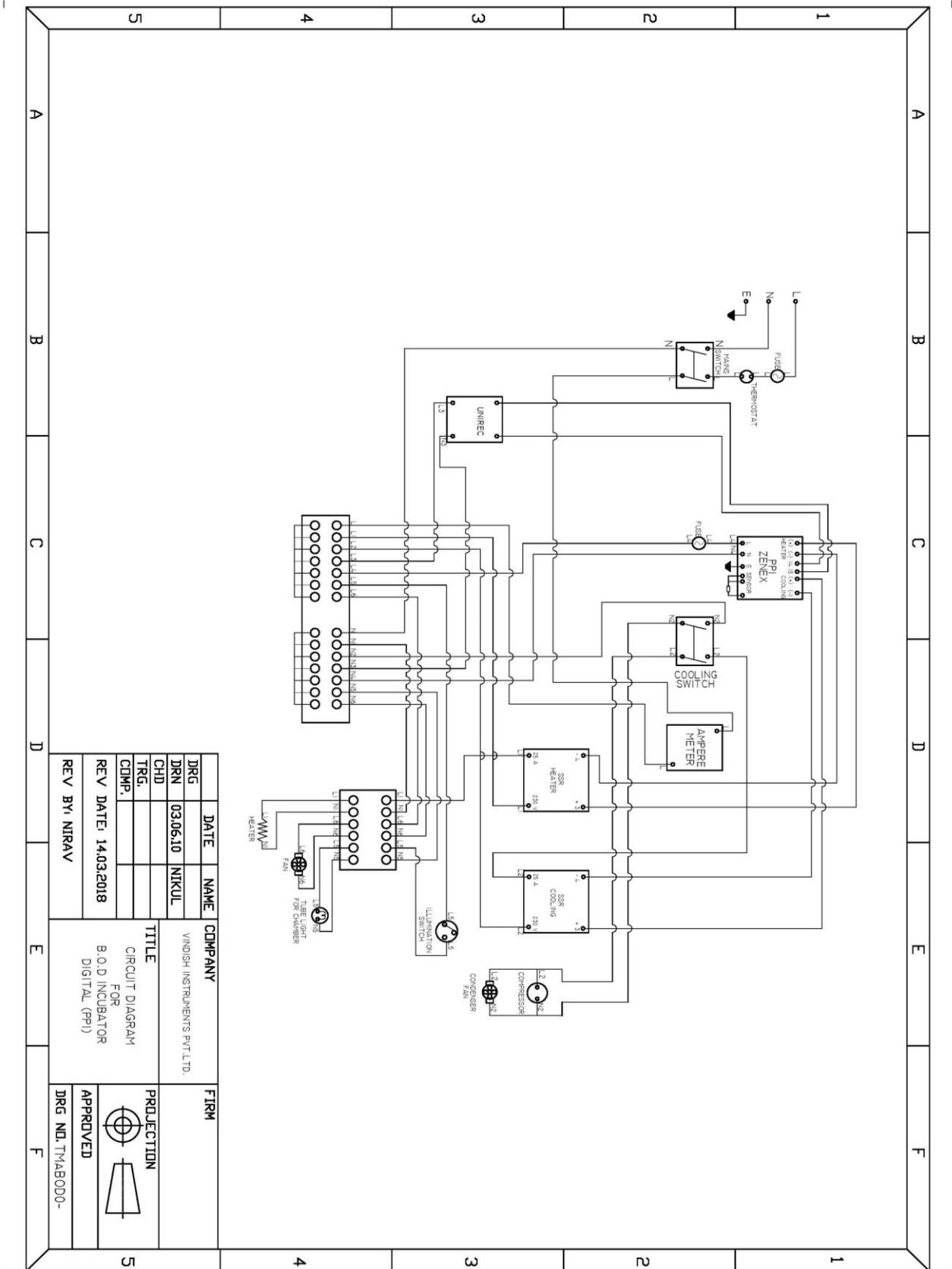


Figure 2 Electric Circuit Diagram

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7 Brief construction details of EIE – BOD Incubator

- 1) BOD Incubator is a double walled convection unit.
- 2) The double wall layer is supplied with separate inner chamber and exterior body wherein they do not have direct physical contact with each other.
- 3) Inner chamber is made up of stainless steel with due care in order to eliminate the sharp edges.
- 4) All external cases of chamber are constructed out of stainless steel or mild steel often with strong seamless welding and covered with a thick layer of finished & attractive powder coating paint.
- 5) The gap between the double walled layers is filled with thick mineral glass wool (Insulation) to prevent the direct heat loss to ensure the maximum efficiency.
- 6) The unit is fitted with a single door having easy to pull locking arrangement. A specially fabricated door having silicon rubber gasket fixed at its edges keeps the inside temperature completely stable.
- 7) A transparent polycarbonate sheet door is also provided within the chamber to inspect test samples without disturbing the inner atmosphere of the chamber.
- 8) The fixed ventilators are provided on both sides of the unit for thermal (Mapping) validation purpose.
- 9) To attain uniform temperature distribution within the specified range, an air blower is strategically fitted inside the working chamber.
- 10) The heating is achieved by U-shaped dry / air heater as a part of heater element and the cooling is achieved by compressor unit installed at the most bottom part of the chamber.
- 11) The unit comprises of only one air heater to achieve accurate heating temperature inside the working chamber. This heater is made of high-quality Nichrome wire and finest ceramic Beads.
- 12) Wiring of internal circuitry is done as per CE Compliance.
- 13) The cord wire of the chamber is checked for stress and strain test as per CE Norms.
- 14) Precise Temperature control is obtained by sensitive Microprocessor based PID temperature controller (Advanced model) for ease of operation.
- 15) A Fluorescent light is also installed within the chamber for better visibility of test samples.
- 16) The specially fabricated footrest keeps the whole instruments in correct equilibrium.
- 17) The unit is fixed with Caution and other required labels, as per International Safety norms.

8 Introduction to control panel

Mains switch cum indicator

In this advanced model, mains switch serves the purpose of switching and indicating both. An operator can switch on / switch off the entire unit from mains switch mounted on front panel. Also, the switch incorporates a lamp inside which indicates that the mains supply is on and the unit is currently in the operating mode.

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Microprocessor based Digital Temperature Controller

EIE – BOD Incubator incorporates the microprocessor based PID temperature to monitor and maintain the set-point temperature value inside the chamber. A proportional–integral–derivative controller (PID controller) is a generic control loop feedback mechanism (controller) which calculates an "error" value as the difference between a measured temperature value and a desired set-point value. The controller attempts to minimize this error by adjusting the process control input.

Cooling Switch

This is the compressor switch incorporated in the standard model of BOD Incubator with refrigeration system. Cooling switch installed in the control panel helps to create and maintain the preferable working temperature inside the chamber. It controls the working of compressor which generates cooling effect inside the chamber. Whenever user wants to carry out the test below ambient temperature, he should keep this switch ON. Ideally, a cooling switch should be kept on for all the test parameters (above or below ambient value) for better accuracy and uniformity. In EIE Incubator, air heater blinks on or off as per the test requirement to maintain temperature near the set point, while compressor runs continuously 24 hours for better uniformity and accuracy.

Fuses

A glass fuse of 1 amp is installed in series connection with digital temperature controller as to protect the PID controller in case of voltage fluctuation and short-circuit scenario.

Ammeter

It will indicate the current rating of entire unit while it is in operating mode. This is too useful in case of the cooling chamber with refrigeration system so that the end operator can know his current requirement.

Voltmeter

A **voltmeter** is an instrument used for measuring electric potential difference between two points in an electric circuit. Analog **voltmeters** move a pointer across a scale in proportion to the voltage of the circuit.

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9 Technical specification

9.1 Electrical specifications

Electrical Parameters	Technical Specifications
Power source	220 Volt, 50 Hz, single phase AC
Power consumption	According to selected working chamber (Please refer to table 2 for working chamber size)
Temperature range	From 5 °C above ambient to maximum 60 °C
Temperature accuracy	± 1 °C or better
Temperature uniformity	± 0.5 °C or better
Compressor	CFC free Emerson compressor utilizing 134A ecofriendly refrigerant with condenser
Air convection	Forced air circulation
Temperature controlled	Through microprocessor based PID controller cum indicator
Heating elements	“U” shaped S.S Tubular heaters
Heater watts	According to selected working size
No. of heaters	02 Nos. (750 watts each)
Temperature sensor	PT-100
Insulation	PUF Insulation
Safety devices	SSR (Solid State Relay) 25 ampere, fuse, Thermostat
Electric motor	1300 rpm, 1/13 hp power, 230 volt

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9.2 Mechanical specifications

Mechanical Parameters	Technical Specifications
Inside chamber	Stainless steel – 316 (GMP Model) / 304 (Standard Model) grade with mirror finished
Outside chamber	G.I. duly powder coated (Standard Model) / Completely stainless steel - 304 grade (GMP Model)
Trays (Shelves)	Heavy duty stainless steel mesh - perforated type
Insulation	PUF Insulation
Number of shelves	Two shelves (According to selected working size)
Glass door	Viewing door made of glass with lock arrangement
Feet	Caster rotating wheel at 360°
Blower (circulating fan)	Made of aluminum material, 3" height & 6" diameter
Capacity	According to selected working size

9.3 Different sizes of BOD Incubator

Inner chamber size (cms) (D x W x H)	Overall dimensions (cms) (D x W x H)	No of trays	Chamber capacity (Liters)	Power consumption (Kw)	Approximate Weight (Kgs)
30 x 30 x 30	52 x 45 x 64	1	27	1.0	45
35 x 35 x 35	57 x 50 x 72	1	64	1.0	52
45 x 45 x 45	67 x 60 x 82	2	92	1.5	72
45 x 45 x 60	67 x 60 x 97	2	121	1.5	78
60 x 60 x 60	82 x 75 x 97	3	216	2.0	110
60 x 60 x 90	82 x 75 x 125	3	324	2.5	148

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9.4 Guidelines for Operating Microprocessor based controller



PV : Process value

SV : Set value

There are tactile keys provided on the front panel for configuring the controller and setting up the parameter values.

- **SET KEY:** This key opens the settings from main display or to close a setting and return to the MAIN display from program mode.
- **DOWN KEY** : Press to decrease the parameter value.
- **UP KEY** : Press to increase the parameter value.

Press “UP/DOWN” arrow key set the required temperature, after that press “SET key” to save the input data. Now controller will automatically maintain the required temperature within few hours.

Note: The controller is factory set and it does not require any settings except required temperature.

9.5 Standard Operating procedure of BOD Incubator

- 1) Place the equipment on a plain, even and sturdy surface in a way such that the instrument is well balanced and all the control options can be reached with ease and comfort.
- 2) Clean inside chamber of instrument unit with clean cloth.
- 3) Check the earthing before establishing connection to the Mains.

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- 4) Unlock the door and load the substances into the chamber carefully. Do not tilt the flask or vessel inside the chamber. Lock the door completely and make sure that there is no leakage from door surroundings.
- 5) Arrange distil water bottle to supply inlet water to the cold water tank installed on top of the unit.
Caution: Always prefer to use distil water supply only. The normal tap water will cause the cavity to gather around the heater surface area resulting in lesser life span of water heaters.
- 6) The level inside the cold water tank is maintained by float valve. The water level inside the cold tank is dependent on the amount of steam generated in hot water tank connected through PVC pipe to the cold water tank. The higher the steam generated inside the hot water tank; the higher the inlet water supply to the cold tank and vice versa. The float valve (inside the cooling water tank) operates in such a manner that it only allows the required amount of water drop lets to come inside the water tank maintaining correct water level all the time.
- 7) Also arrange a bucket to collect drained water that comes out during the operating process. An operator may use the enamel tray for this purpose supplied with the instrument.
- 8) Connect the three pin plug to mains socket board only after ensuring all the safety instructions.
- 9) Press the mains switch on socket board to switch the power on; the corresponding indicator lamp will be illuminated at the same time.
- 10) As the mains switch will glow, the digital microprocessor based PID controller will indicate surrounding room-temperature (ambient temperature) in “PV” digits at top of the line while the bottom line with “SV” digits will indicate the surrounding temperature value.
- 11) Turn on the cooling switch available in control panel for better accuracy. Keep this switch on for all test types - above ambient or below ambient. It shall never be switched off.
- 12) This will bring up the temperature value set-point mode on the PID controller display. Upper digits in “PV” will indicate chamber temperature value, while the bottom digits in “SV” will indicate set-point value. Set your desired temperature value by pressing **UP / DOWN arrow key** on PID controller while on the SET page and press “SET” to save the input temperature value.
- 13) Now, controller will automatically tune and start to maintain the set-point temperature values. After some time, it will come out of the setting mode and start indicating the temperature process value.

10 Direction to clean the chamber

- 1) Disconnect from power supply prior to cleaning.
- 2) The interior surface of the unit should be periodically wiped down with a solution of warm water and baking soda. This solution will remove any odors from spillage that has occurred.
- 3) Dry the equipment thoroughly.
- 4) Wear gloves while cleaning the equipment.

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- 5) Remove shelves and clean with wet cloth. Dry shelves thoroughly and then place into chamber again.
- 6) Never use benzene or paint thinner for cleaning.
- 7) Do not use an abrasive or alkaline solution.
- 8) Monthly cleaning of the condenser will aid the heat transfer characteristics of the refrigeration system and increase its efficiency. Dust, dirt, and lint may accumulate on the fins of the condensing unit. This obstruction may affect the flow of air through the condenser, thereby lowering the efficiency of the system.

11 Precaution to be observed

- 1) Always disconnect from power supply prior to maintenance & servicing.
- 2) Ensure that the door is always latched properly whenever the instrument is operating. Do not keep the door open for long time.
- 3) Samples may never be placed / removed at any instance during the operation of the unit.
- 4) The air circulator fan (Blower) & condenser fan needs to be oiled periodically for better performance.
- 5) While cleaning the area around the compressor, take care that the cooling pipes around it do not get damaged.
- 6) Monthly cleaning of the condenser will aid the heat transfer characteristics of the refrigeration system and increase its efficiency.
- 7) Always connect the chamber to 230 volts, 50 Hz, Single phase, AC supply via voltage stabilizer of specified ratings.
- 8) To avoid electrical shock, this equipment must always use a properly grounded electrical outlet or correct voltage and current handling.
- 9) Maintain a safe distance of at least 5" to 6" from the wall while installing the apparatus.
- 10) Please do not overload the working chamber with excessive test samples. This will prevent free air circulation as a result of which uniformity of temperature throughout the chamber cannot be attained.
- 11) Recommend to replace the door gasket on yearly basis.
- 12) Never leave the instrument connected to mains after completion of operation.
- 13) Make sure the air vents of the unit are able to adjust smoothly.
- 14) The unit is supplied with the brush-less AC motor, hence there is no need to replace the carbon brush.
- 15) Keep the instrument tidy, clean and dry with mint cream. Before initiating the fresh day, use preferably clean soft cloth. Brush up the unit body as to maintain its finishing.
- 16) Disassembly of this equipment is strictly limited to the qualified persons and licensed engineers.
- 17) In case of any difficulty, please do not try repairs without consulting us, especially when the instrument is under warrantee period.

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12 Troubleshooting

Problem	Possible Causes	Solutions
Instrument is completely off	<ul style="list-style-type: none"> a) Appropriate mains supply is not available. b) Fuse is burnt. c) Thermostat is out of order. 	<ul style="list-style-type: none"> a) Check the mains supply. b) Replace the fuse. c) Rotate the dial of thermostat above 60 °C or replace the thermostat.
Temperature is not maintained within the set limit	<ul style="list-style-type: none"> a) Door is left open. b) Relay of dry Heater or compressor is not working. c) Dry heater is not working or compressor is not working. d) Controller is malfunctioning. 	<ul style="list-style-type: none"> a) Close the door. b) Check relay output and if found defective, please replace the SSR. c) Check resistance of heater and if it is below the prescribed range, please replace. Also, check continuity of compressor and if found defective, please replace. d) Replace the controller.
Cooling is not achieved	<ul style="list-style-type: none"> a) Condenser motor is burnt or condenser pipes are covered with dirt. b) Relay of compressor has stopped working c) Compressor is not functioning at all. 	<ul style="list-style-type: none"> a) Clean the condenser unit. Also, check the condenser motor. If found burnt, please consult your technician to replace it. b) Check relay o/p, if found dead, please replace the SSR. c) Replace the compressor.

Warranty Certificate

Your EIE product is guaranteed to be free from defects in materials and workmanship for one (1) year under normal use from the date of purchase. This warranty does not apply to any product damaged by accident, misuse, mishandling, abuse, negligence, transit, improper line voltage, drop, fire, flood or if the products were altered or repaired by anyone other than the qualified service personnel. The liability of EIE Instruments is limited to repair or replacement and under no circumstances shall EIE be liable for any collateral consequential damages or loss. This guarantee specifically excludes the expendables and consumables. All warranty claims must be directed to your corresponding purchase organization that is responsible for the sale of this equipment. The users are responsible for shipping expense. The warranty cards which are not signed and stamped by the actual user will be treated as void. The warranty card should accompany the defective products sent for repair, without which no claims would be entertained. Please detach the below warranty card from following cut-line.

.....

Attributes	Details
Name of the company	
Address	
Telephone number	
Mobile number	
Email address	
Date of purchase	
Product model	
Serial Number	
Bill or cash memo number	

This card should be detached, filled in properly and posted within 15 days from the date of purchase otherwise the warranty becomes invalid.

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Corporate Office

EIE INSTRUMENTS PVT. LTD.

A-1301, BVR EK BUILDING, Gujarat College Road,
Opp. Inder Residency, Ellis bridge, Ahmedabad, Gujarat-380006, India

Website: www.eieinstruments.com

Phone Number: +91-79-66211234,

Email Address: info@eieinstruments.com

Calibration Laboratory

EIE INSTRUMENTS PVT. LTD.

B-14, Zaveri Industrial Estate, Kathwada Singarva Road,
Opp. Shyam, villa Society, Kathwada, Ahmedabad,
Gujarat - 382430, India

Phone Number: +91-79-66040660, +91-79-66040600

Website: www.eieinstruments.com

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