PRICE LISTFOR INLAB BRAND PRODUCTSEFFECTIVE FROM JULY-2023

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43. **“INLAB"AUTOCLAVE – VERTICAL(HSN CODE : 84198930)**

Boiler, lid and work basket are all made of stainless steel argon arc welded and the outer is also made of heavy gauge stainless steel and polished. Electrically heated with ISI heaters. Pressure gauge, steam release cock and safety valve and extra safety valve are fitted in the lid. Single piece molded silicon gasket is provided to give a long life. Operating pressure 15lbs/sq inch works on 220 volts A.C.Includingbottom drain made of SS and Electronic water level cut off device with contactor and panel.

**Size**

**Height x Dia Rating Capacity:**

**250 x 450 mm (10” X 18 ) 2 kw 23 Ltrs Each 62,000.00**

**250 x 500 mm (10”x 20) 2 kw 28 Ltrs Each 66,000.00**

**350 x 550mm (14” X 22 ) 2 kw 55 Ltrs Each 77,000.00**

**450 x 650 mm ( 18” X 26 ) 4 kw 108 Ltrs Each 1,06,000.00**

**(3 Phase power supply required)**

**550 x 750mm (22” X 30)6 kw 180 Ltrs Each 1,41,000.00**

 **(3 Phase power supply required)**

**Note:**

1) Lifting arrangement of lid is by hand only -- **THIS WE HAVE TO PUT ONLY WHEN WE QUOTE 1 SIZE**

2)Lifting arrangement of lid is by hand for the first two sizes and for the other sizes by pedal arrangement. **THIS WEHAVE TO PUT ONLY WHEN WE QUOTE ALL 4SIZES**

**Optional:**

1. Calibration Certificate for pressure gauge(IF REQUIRED)**Each 800.00**

Digital automatic cut off device - once the pressure reaches 15Pounds i.e 121ºC, the timer starts and exactly after 15 minutes the heater will go off.Automatic electronic water level cut off device is inbuilt in the controller**Each 14,000.00**

**TEMPERATURE-PRESSURE CHART**

**Pressure Steam temperature in Centigrade**

**7 Ibs 110⁰C**

**14 Ibs 120⁰C**

**21 Ibs 125⁰C**

**bs 130⁰C**

1. **(A) “INLAB”FULLY AUTOMATIC AUTOCLAVE (HSN CODE : 84198930)**

Boiler, lid and work basket are all made of stainless steel argon arc welded and the outer is also made of heavy gauge stainless steel and polished. Electrically heated with ISI heaters. Pressure gauge, steam release cock and safety valve and extra safety valve are fitted in the lid. Single piece molded silicon gasket is provided to give a long life. Operating pressure 15lbs/sq inch works on 220 volts A.C including .Bottom drain made of SS, Automatic water level cut off device and microprocessor based digital temperature controller Cum Indicator.

**Process cycle for fully automatic autoclaves:**

1. Once the water is filled, the material loaded, time and temperature set,(say for 15 minutes & 121º C) lid tightened and power switched ON, the process is fully automatic to the end.
2. Automatic purging (free steaming) taken care of automatically.
3. The selected temperature (121º C) is attained.
4. After attaining the set temperatures, the timer starts count down.
5. During this period the controller maintains the temperature (pressure) by switching off and ON the heaters. This saves energy.
6. After the preset 15 minutes, there is an audio alarm the solenoid valve opens to exhaust the steam and the system is reset.

**Salient Features of Micro Processor Controller Model Clavex with Timer**

Sequence of Operation as Mentioned Above.

Input : RTD (or) PT-100

Temp. Range : 0 to 150ºC

Inbuilt Timer : 0 to 999 Sec selectable

Display : 4 digit each 0.5” 7 segment red LED to display processand set values.

Control Output : 1. Heater

 2. Air Outlet

 3. Alarm

Size : 48 X 48 X 100 mm

Enclosure : Plastic

**Size**

**Height X Dia Rating Capacity**

**450 X 250 mm 2 kw 23 Ltrs Each 1,10,500.00**

**550 X 350 mm 2 kw 55 Ltrs Each 1,24,500.00**

**650 X 450 mm 4 kw 108 Ltrs Each 1,32,500.00**

**750 X 550 mm 6 kw 180 Ltrs Each 1,97,000.00**

**Optional:**

1. Calibration certificate for pressure gauge **Each 800.00**
2. RS 485Printer Output. **Each 7,000.00**

**(B) “INLAB”FULLY AUTOMATIC AUTOCLAVE WITH F0 VALUE.(HSN CODE : 84198930)**

Boiler, lid and work basket are all made of stainless steel argon arc welded and the outer is also made of heavy gauge stainless steel and polished. Electrically heated with ISI heaters. Pressure gauge, steam release cock and safety valve and extra safety valve are fitted in the lid. Single piece moulded silicon gasket is provided to give a long life. Operating pressure 15lbs/sq inch works on 220 volts A.C including .Bottom drain made of SS automatic water level cut off device and microprocessor based digital temperature controller Cum Indicator.

**Process cycle for fully automatic autoclaves:**

1. Once the water is filled, the material loaded, time and temperature set,(say for 15 minutes & 121º C) lid tightened and power switched ON, the process is fully automatic to the end.
2. Automatic purging (free steaming) taken care of automatically.
3. The selected temperature (121º C) is attained.
4. After attaining the set temperatures, the timer starts count down.
5. During this period the controller maintains the temperature (pressure) by switching off and ON the heaters. This saves energy.
6. After the preset 15 minutes, there is an audio alarm the solenoid valve opens to exhaust the steam and the system is reset.

**The Digital Controller provided has the following salient features:-**

Advanced Autoclave controller with recording + 4 channel mapping + pressure indication & PC Software

Model Clavex plus

160 x 80 monochrome graphic display for comprehensive process information

4 universal Temperature inputs for control & Mapping

User programmable Temperature Measurement Strategy ( Map – 1 or Average of Map – 1 to Map-4 or Min / Max of all mappings)

1 Universal Input (mA, V) for Pressure indication

Digital inputs for Low water level detection

Digital Outputs (SSR Drive) for heating , Air Exhaust & Alarm)

Automatic cycle abortion at high temperature safety limit & Low water level

F0 Value calculation & indication

In-built Huge memory for autoclave cycle Data Recording with settable interval

21 CFR Compliance PC Software for Comprehensive Report Generation

Version Available for Direct Printout of Report on 80/ 132 column Dot-Matrix Printer.

**Size**

**Height X Dia Rating Capacity**

**450 X 250 mm 2 kw 23 Ltrs Each 1,39,000.00**

**550 X 350 mm 2 kw 55 Ltrs Each 1,53,500.00**

**650 X 450 mm 4 kw 108 Ltrs Each 1,61,000.00**

**750 X 550 mm 6 kw 180 Ltrs Each 2,25,000.00**

**Optional**

**Printer Each 6,700.00**

1. **External Printer Module**

Interface Port Centronix (Parallel Interface)

Printer Support 80/132 Column Dot-Matrix (EPSON LX-300-II or

Equivalent)

Supply Voltage 10~30 VDC (24 VDC Nominal)

1. **Digital Pressure Transmitter in place of Analog Pressure Gauge.Each 9,000.00**

Pressure Transmitter, Model : m5200

Pressure range: 0 to 4 Bar

2 wire transmitter with 4 to 20 mA output

operating temperature range -40°C to +125°C

Process connection: 1/4 " BSP

[ Syphon in your scope]

1. **Optional sensors in case of mapping Each 1,500.00**

**(Please specify the number of sensors required)**

1. **Validation using four sensors for a single cycle Each 4,000.00**
2. **“INLAB” B.O.D INCUBATOR DELUXE MODEL (HSN CODE: 84198960)**

Temperature range 5ºC to 50 ºC. Double wall inside stainless steel and outside mild steel and two air circulating fans, Microprocessor based electronic digital temperature controller cum indicator gives an accuracy of ± 1ºC. Acrylic glass door is provided inside. Finished with powder coat finish. Castor wheels are provided at the bottom for easy movement.

The refrigeration system is placed at the top and R134A ( CFC free) gas is charged in the system.

Note: only best quality motors namely “Rexnord” make are used for air circulation inside.

(Voltage Stabilizer with time delay to be provided by customer.)

**STAINLESS STEEL INSIDE**

**Size**

**a) 4 cu.ft. H 610 mm X W 455 mm X D 410 mm ( 115 Ltrs )Each 97,000.00**

**b) 6.1 cu.ft. H 830 mm X W 505 mm X D 415 mm ( 170 Ltrs ) Each 1,04,000.00**

**c) 8 cu,ft H 1030 mm X W 530 mm X D 430 mm( 235 Ltrs )Each 1,09,000.00**

**d) 10 cu.ft. H 875 mm X W 570 mm X D 550 mm ( 275 Ltrs ) Each 1,15,000.00**

**e) 12 cu.ft. H 900 mm X W 650 mm X D 580 mm ( 340 Ltrs )Each 1,26,000.00**

**f) 14 cu.ft H 1000 mm X 625W mm X 625 D mm(380 Ltrs ) Each 1, 40,000.00**

**g) 16cu.ft H 1050 mm X W 660 mm X D 655 mm ( 455 Ltrs )Each 1, 48,000.00**

**h) 20 cu.ft H 1300 mm X W 650 mm X D 700 mm( 540 Ltrs )Each 1,70,000.00**

**i) 29 cu.ft H 1400 mm x W 750 mm x D 750 mm ( 800 Ltrs ) Each 2,70,000.00**

1. **B.O.D INCUBATOR MICROPROCESSOR CONTROLLEDMODEL :(HSN CODE: 84198960)**

SAME AS ABOVE BUT WITH THE Micro PLC base advanced PID“LABCON”CONTROLLER

From PPI Mumbai.

The following versions are available.

Controller + Recorder + PC software (+ optional GSM) Rs38,000.00

Controller + Recorder +Printer

(Printer not included) Rs 38,000.00

Controller + Recorder + Mapping + PC software (+ optional GSM)

(includes 4 nos probes for mapping) Rs 44,000.00

Controller + Recorder + Mapping +Printer

(includes 4 nos probes for mapping but not printer) Rs 44,000.00

Note: The above cost is only for the controller.

Please add to the cost of the instrument.

**SALIENT FEATURES OF LABCON CONTROLLER PROVIDED IN THE SYSTEM**

**160 x 80 STN Monochrome Graphic LCD**

**Up to 4 or 5 Temperature Channels (1 control + 3 or 4 Mapping) with User Programmable inputs : RTD pt 100 , mA,Volts**

**Settable ON-OFF or Self Tune PID Control Loop**

**Settable ‘Heat – Only’, ‘Cool –Only’ & ‘Heat + Cool’ Control**

**PV or SP based compressor control strategy**

**In-Built Programmable Time Delay for Compressor Switching**

**In-built Programmable Timer**

**3 SSR Outputs : Heater, Compressor & Alarm**

**PV, Alarm & Event Data Recording with Date / Time Stamping.**

**Door Open Detection, Alarm and Logging**

**Mains Failure Detection, Alarm and Logging**

**Rs 485 Serial Port for PC Connectivity**

**Optional Printer Interface Module for Direct On/Off –Line Printing**

**Pc Configurable Header / Footer for Printing**

**Controller**

1. **“INLAB” B.O.D. INCUBATOR GMP MODEL(HSN CODE: 84198960)**

 Temperature range 5ºC - 50ºC.Double wall inside and outside made of stainless steel 304 quality and two air circulating fans. Electronic microprocessor based digital temperature controllercum indicator gives an accuracy of ±0.5ºC. Acrylic glass door is provided inside.

(Voltage Stabilizer with time delay to be provided by customer.)

Note: Only best quality motors namely “rexnod” make are used for air circulation inside and condenser motor at the bottom

**Size**

**a) 4 cu.ft. H 610 mm X W 455 mm X D 410 mm Each 1,17,000.00**

**b) 6.1 cu.ft. H 830 mm X W 505 mm X D 415 mm Each 1,23,500.00**

**c) 10 cu.ft. H 875 mm X W 570 mm X D 550 mm Each 1,31,500.00**

**d) 12 cu.ft. H 900 mm X W 650 mm X D 580 mm Each 1,57,000.00**

**e) 16 cu.ft H 1050 mm x W 660 mm x D 655 mm Each 1,82,000.00**

1. **B.O.D INCUBATOR MICROPROCESSOR CONTROLLED GMPMODEL :(HSN CODE: 84198960)**

SAME AS ABOVE BUT WITH THE Micro PLC base advanced PID“LABCON” CONTROLLER

From PPI Mumbai.

The following versions are vailable.

Controller + Recorder + PC software (+ optional GSM) Rs 38,000.00

Controller + Recorder +Printer

(Printer not included) Rs 38,000.00

Controller + Recorder + Mapping + PC software (+ optional GSM)

(includes 4 nos probes for mapping) Rs 44,000.00

Controller + Recorder + Mapping +Printer

(includes 4 nos probes for mapping but not printer) Rs 44,000.00

**Note: The above cost is only for the controller.**

**Please add to the cost of the instrument**

**SALIENT FEATURES OF LABCON CONTROLLER PROVIDED IN THE SYSTEM**

**160 x 80 STN Monochrome Graphic LCD**

**Up to 4 or 5 Temperature Channels (1 control + 3 or 4 Mapping) with User Programmable inputs : RTD pt 100 , mA,Volts**

**Settable ON-OFF or Self Tune PID Control Loop**

**Settable ‘Heat – Only’, ‘Cool –Only’ & ‘Heat + Cool’ Control**

**PV or SP based compressor control strategy**

**In-Built Programmable Time Delay for Compressor Switching**

**In-built Programmable Timer**

**3 SSR Outputs : Heater, Compressor & Alarm**

**PV, Alarm & Event Data Recording with Date / Time Stamping.**

**Door Open Detection, Alarm and Logging**

**Mains Failure Detection, Alarm and Logging**

**Rs 485 Serial Port for PC Connectivity**

**Optional Printer Interface Module for Direct On/Off –Line Printing**

**Pc Configurable Header / Footer for Printing**

**Controller**

**“INLAB” COD DIGESTER ( HSN CODE : 8419 )**

COD Digester with digital temp controller & timer

along with glass parts Indian make 15 Samples**Each 45,000.00**

( OR )

COD Digester with digital temp controller & timer

along with glass parts Indian make 6 Samples**Each 37,000.00**

1. **"INLAB”COLONY COUNTER "ELECTRONIC"(HSN Code :9027)**

With additional 4 digits resettable counter operated by an auto mark probe. **Each 7,200.00**

1. **“INLAB” COLONY COUNTER ( HSN CODE : 9027 )**

Digital ColonyCounter4 digits LED display Range 0-9999. With 125 memory, hold and count correction facility. Data restored even after power failure.**Each 7,200.00**

1. **INLAB” DEHUMIDIFIER (HSN CODE : 9027)**

Electrically operated and refrigerated type. The unit is made ofMS powder coated and mounted on a sturdy iron frame and the whole system is movable on castor wheels. Air conditioner is a must for operating the system effectively. A stainless steel tank is provided with hose for collecting water. Minimum humidity that can be achieved is 45% however, under ideal conditions, 40% humidity can be achieved. Range 45 to 95%.

**Capacity: 1 Ton Each 85,000.00**

**--DO-- GMP Model**

**(Complete unit made of SS quality) Each 1,07,000.00**

**Capacity: 1.5 Ton Each 90,500.00**

**--DO-- GMP Model**

**(Complete unit made of SS quality) Each 1,15,000.00**

**Capacity: 2 Ton Each 1,00,500.00**

 **--DO- GMP Model**

**(Complete unit made of SS quality) Each 1,28,000.00**

**Accessories Provided along with the unit:**

**Humidistat Indian make for the above systemwith digital display of humidity in percentage.**

**NOTE:** Voltage stabilizer is a must for the above system and tobe provided by the customer.

**“INLAB” HUMIDIFIER ( HSN CODE : 9027 )**

The humidifier comprises a reserve tank and a boiler tank interconnected by means of SS tube. Water from the tap directly goes to the reserve tank and the flow is controlled by an electronic float and a mechanical float thereby keeping the water level constant. This water goes to the boiler tank in tandem, Where in a kettle element is fixed. Water is boiled in the tank and the steam generated is driven by means of a motor and blower thereby creating humidity inside the room. Humidity is controlled by means of a humidity controller and a humidity probe. The whole unit is placed inside a closed unit with castor wheels for easy movement.

**Technical Specification:**

Reserve tank capacity : 5 to 8 lit**Each 40,000.00/-**

Boiler tank with heater : 1 kw

Humidity range : above ambient humidity to 90%

Accuracy : ±5% RH

Control panel comprises main switch, pilot lamp, humidity controller cum indicator and humidity probe.

**Note:** The complete unit is made of SS 304 quality

**6. “INLAB” ALL GLASS DISTILLATION WATER STILL(HSN CODE : 8419)**

With capsule type boiler, silica heaters, condenser, constant level device, suitable stand. All parts are interchangeable. Capable to produce ultrapure water, which meets ip/bp requirement in terms of freedom from trace elements and pyrogens, with an electrical conductivity of 0.2 - 0.5 s/cm. At 20deg.c. electrically operated on220/230 volts.

Provided with auto cut off device in case of low waterlevel.

**SINGLE STAGE:**

Cap: 1 to 1.2 ltr - 15,000.00

Cap: 4 Liters / hr approximately - 42,500.00

**DOUBLE STAGE:**

Cap:1 to 1.2 ltr - 29,500.00

Cap: 4 Liters / hr approximately- 84,000.00

Installation requirements to be provided by you

1. 15 Amps 220 Volts power socket – 1 no
2. Three way swan neck water tap to enable water circulation for boiling chamber and condenser separately.
3. **“INLAB” DEEP FREEZER - 20ºC( HSN CODE : 8418 )**

These deep freezers are designed for quickfreezing and storing of blood ITE components,Serum, Vaccines, Biological and Medical Specimens, Clinical samples etc. at low temperature.

These freezers are with specially engineered Superior insulation and specially designed

Refrigeration system.Constructed of doubleWalls. The exterior is made of sheet steel while the interior of stainless steel having puf Insulation to minimize temperature loss.

Capillary controlled balanced hermeticallysealed refrigeration is most economical, troubleFree and exceptionally quiet.

**VERTICAL MODEL**

 **Capacity: 170 Ltrs.**

 Temp. Range: - 20º C.

 Inside Dimension: 50W x 43D x 85H **EACH 88,500.00**

 Temperature display by digital

 Accuracy: ± 1º C.

 -------------------------------------DO-----------------------------

 **Capacity: 265 Ltrs.**

 Inside Dimension: 58W x 50D x 99H  **EACH 1,15,500.00**

**Note:**Automatic voltage stabiliser with time delayrating: 2 kva for the above to beprovided by you.

**b) “INLAB”DEEP FREEZER : - 400 C( HSN CODE : 8418 )**

These deep freezers are designed for quickFreezing and storing of blood components,Serum, vaccines, biological and medical Specimens, clinical samples etc. At low temperature

These freezers are with specially engineered Superior insulation and specially designed

Refrigeration system.Constructed of doubleWalls. The exterior is made of sheet steel while the interior is of stainless steel having puf Insulation to minimize heat loss.

Capillary controlled balanced hermeticallysealed refrigeration is most economical, trouble Free and exceptionally quiet.

**VERTICAL MODEL:**

 **Capacity: 170 Ltrs. EACH 1,76,500.00**

 **Capacity: 265 Ltrs. EACH 1,87,500.00**

**Note:**Automatic voltage stabilizer with time delayrating: 5 kvafor the above to be provided by you

1. **“INLAB”ELECTRIC BUNSEN BURNER** with energy regulator**EACH 3,200.00**

 **(HSN Code: 8419)**

1. **“INLAB” ENVIRONMENTAL TEST CHAMBER MICRO PROCESSOR MODEL**

**ECONOMY MODEL( HSN CODE : 84198960 )**

Double walled construction exterior is made of sheet steel powder coated and interior is of stainless steel 316 quality. A flush fitting insulate door has leak proof gasket. The shelf position of the trays is adjustable. The rear chamber of the interior is fitted with a refrigeration evaporator, heater and air circulating fan to create a positive air flow throughout the chamber. A hermetically sealed compressor below the chamberprovides temperature below ambient. The same compartment houses a boiler with an immersion heater and water level controller for creating humidity. The control panel is provided at the top with Micro Controller based PID temperature, humidity controller PPI Make, Model **Humitherm–C**with the following features.

**CONTROLLER FEATURES:**

**Independent display for temperature and Humidity**

**Input version with temperature and Rh transmitter**

**Independent self tune PID control loopfor temperature and humidity**

**Heater and humidifier control out put**

**Optional relay output for alarm/compressor control with time delay**

**Optional serial communication port**

**Size 48(H) x 48 (W) x 110 (D) mm**

**OUTSIDE MADE OF GALVANIZED STEEL POWDER COAT PAINTED AND INSIDE MADE OF SS 316**

QUALITY

SIZES:

###### 6 CU FEET

H 820 MM X W 500MM X D 430 MM  **EACH 1,76,500.00**

CAPACITY: 170 LTRS

###### 8 CU FEET

H 870 MM X W 520MM X D500 MM  **EACH 1,92,500.00**

CAPACITY: 226 LTRS

**10 CU FEET**

H 970 MM x W 580 MM x D 500 MM  **EACH 2,04,000.00**

CAPACITY: 250 LTRS

##### 12 CU FEET

H 1020 MM x W 620 MM x D 530 MM **EACH 2,18,500.00**

CAPACITY: 325 LTRS

--------------------------------DO----------------------------------

OUTSIDE ALSO MADE OF SS 304 QUALITY

###### 6 CU FEET

H 820 MM x W 500 MM x D 430 MM

CAPACITY: 170 LTRS.  **EACH 2,14,500.00**

###### 8 CU FEET

H 870 MM X W 520MM X D500 MM  **EACH 2,32,000.00**

CAPACITY: 226 LTRS

**10 CU FEET**

H 970 MM x W 580 MM x D 500 MM

CAPACITY: 250 LTRS  **EACH 2,43,000.00**

##### 12 CU FEET

H 1020 MM X W 620 MM X D 530 MM

 CAPACITY: 325 LTRS  **EACH 2,59,500.00**

**SPECIFICATIONS:**

1. Capacity – inner chamber : Already given
2. Temperature : 10ºC to 60ºC
3. Accuracy : ±2º C
4. Humidity range : 40% to 95%
5. Accuracy : ± 5% RH
6. Chamber is made of : Double walled
7. Inner chamber made of : SS 316 quality
8. Outer chamber made of : galvanized steel Powder Coated
9. Optional : SS 304 Quality
10. Insulation : Glass wool
11. Circulation : Forced air circulation
12. Shelves : Shelf runners with perforated

removable shelves

1. Door for visibility : Made of acrylic
2. Controller : Micro processor based PID type
3. Sensor : Provided for both humidity and temperature
4. Heating element : Nichrome wire with SS fins
5. Cooling device : Hermetically sealed.Kirloskar

 Copeland Heavy.duty Compressor

 (Compressor CFC free model)

1. Boiler Tank : SS refractory type heater

 Reservoir water tank having float valves

1. Safety : Low water cut off indication through pilot lamp.
2. Temperature safety : Protected by capillary thermostat

Provision for

inserting humidity and temperature

probe for validation provided.

**VALIDATION:**

Validation using data logger (calibrated) with 8 Nos of Humidity probes shall be

Undertaken at your site if desired at extra cost.

**INSTALLATION REQUIREMENTS:**

Servo stabilizer of 4 KVA rating is must for the installation of Humidity chamber to be provided by you.

Water tank of suitable capacity made of stainless steel with distilled water and tap with suitable hose is also must to be provided by you. Air conditioned room with stabilized temperature is must for running of the stability chamber for continuous operation.

Warranty not covered for temperature controller, sensors, heaters, tube light and other wear and tear parts.

1. **“INLAB” ENVIRONMENTAL TEST CHAMBER MICRO PROCESSOR MODEL IMPROVED VERSION**

**( HSN CODE : 84198960 )**

Double walled construction exterior is made of sheet steel powder coated and interior is of stainless steel 316 quality. A flush fitting insulate door has leak proof gasket. The shelf position of the trays is adjustable. The rear chamber of the interior is fitted with a refrigeration evaporator, heater and air circulating fan to create a positive air flow throughout the chamber. A hermetically sealed compressor below or above the chamber provides temperature below ambient. On the rear side of thechamber is housed a boiler with an immersion heater and water level controller for creating humidity. The control panel is provided at the top with Micro PLC based temperature + humidity controland recording system with 21 CFR part 11 compliant PC software.

**Model: Humitherm–Plus**

**Salient features**

**Possible conditions of 25deg C - 60% RH, 40 deg c - 75% RH, 30 deg c - 70% RH, 30 deg C -65% RH,**

**Accurate monitoring of temperature and humidity conditions**

**Powerful fan motor for forced air circulation for uniformity of conditions inside chamber within permissible limit**

**SS fin type heaters**

**Hermetically sealed compressor with CFC free refrigerant**

**Validation port**

**Adjustable trays**

**MP controller with LCD display directly displaying temperature and humidity with temperature and capacitance type sensor**

**Auto tuning of controller with battery back up**

**Low high alarm setting**

**Data aquisition software complying to 21 CFR part 11 as per US FDA guidelines. Supports multiple chambers.online data/ records display in graphical and tabular format. Auto start up on PC power up.**

**Centronics interface to record temperature,humidity,date and time and printing.**

**Print interval adjustable. ( printer not in our scope)**

**Power failure and resumption recorded with date and time**

**High temperature safety cut off and alarms for high/low set parameters.**

**Low water level alarm and power cut off for boiler tank heater**

**Time delay for compressor starting**

**Over load cut off relay for compressor**

**Validation for 8 point with temperature and humidity recording ( optional )**

**Note: Controller is provided with Recorder + PC Software + Printer ( without printer )**

**OUTSIDE MADE OF GALVANIZED STEEL POWDER COAT PAINTED AND INSIDE MADE OF SS 316 QUALITY**

**SIZES:**

###### 6 CU FEET

H 820 MM X W 500MM X D 430 MM  **EACH 2,32,000.00**

CAPACITY: 170 LTR

###### 8 CU FEET

H 870 MM X W 520MM X D500 MM  **EACH 2,43,000.00**

CAPACITY: 226 LTRS

**10 CU FEET**

H 970 MM x W 580 MM x D 500 MM  **EACH 2,54,000.00**

CAPACITY: 250 LTRS

#####

##### 12 CU FEET

H 1020 MM x W 620 MM x D 530 MM**EACH 2,65,000.00**

CAPACITY: 325 LTRS

**19 CUBIC FEET**

**Capacity:540litersEach3,25,500.00**

Internal Dimension:660WX655DX1250H

External Dimension:800WX1095DX1820H

No Of Trays:6

 35 CUBIC FEET

**Capacity:1000litersEach4,63,000.00**

Internal Dimension:800W X 800D X 1580H

External Dimension:960W X 1370D X 2270H

**No. of Trays:6**

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OUTSIDE ALSO MADE OF SS 304 QUALITY

###### 6 CU FEET

H 820 MM x W 500 MM x D 430 MM

CAPACITY: 170 LTRS.  **EACH 2,65,000.00**

###### 8 CU FEET

H 870 MM X W 520MM X D500 MM  **EACH 2,76,500.00**

CAPACITY: 226 LTRS

**10 CU FEET**

H 970 MM x W 580 MM x D 500 MM

CAPACITY: 250 LTRS **EACH 2,87,000.00**

##### 12 CU FEET

H 1020 MM X W 620 MM X D 530 MM

CAPACITY: 325 LTRS **EACH 2,98,500.00**

**Capacity:540liters**

No Of Trays:6**Each4,20,000.00**

Internal Dimension:660WX655DX1250H

External Dimension:800WX1095DX1820H

**Capacity:1000liters**

No Of Trays:6**Each5,25,000.00**

Internal Dimension:800W X 800D X 1580H

External Dimension:960W X 1370D X 2270H

**Optional Accessories**

Data Logger (Temp / Humidity ) , 8 channels (4 temp + 4 Humidity ), Each 66,500.00

Supplied complete with sensors

Smart Sensor (Temp &Humidity ) Each 16,500.00

GSM Mobile Alert ( Hardware ) Each 27,500.00

Standby Refrigeration Systems( Manual change over ) Each 44,000.00

( applicable for above 600 ltrs only )

Magnetic Door Access Security SystemsEach 27,500.00

21 CFR part 11 compliant software Each Free of cost

Validation [Mapping] Consists of one Each 26,500.00

cycle for temperature and humidity at

any one set point for 24 hours on empty

and loaded condition.

**SPECIFICATIONS:**

Capacity – inner chamber : Already given

Temperature : 10ºC to 60ºC

Accuracy : ±2º C

Humidity range : 40% to 95%

Accuracy : ± 5% RH

Chamber is made of : Double walled

Inner chamber made of : SS 316 quality

Outer chamber made of : galvanized steel Powder Coated

Optional : SS 304 Quality

Insulation : Glass wool

Circulation : Forced air circulation

Shelves : Shelf runners with perforated removable shelves

Door for visibility : Made of acrylic

Controller : Micro processor based PID type

Sensor : Provided for both humidity and temperature

Heating element : Nichromewire with SS fins

Cooling device : Hermetically sealed.KirloskarCopelandHeavy.duty Compressor (Compressor CFC free model)

Boiler Tank : SS refractory type heaterReservoir water tank having float valves

Safety : Low water cut off indication through

pilot lamp.

Temperature safety : Protected by capillary thermostat

Alarm for low / high RH / Temperature : Provided

Provision for inserting humidity and temperature probe for validation provided.

**VALIDATION:**

Validation using data logger (calibrated) with 8 Nos of Humidity probes shall be

undertaken at your site if desired at extra cost.

**INSTALLATION REQUIREMENTS:**

Servo stabilizer of 4 KVA rating is must for the installation of Humidity chamber to be

provided by you.

Water tank of 10 liter capacity made of stainless steel with the tap with suitable hose is also must and to be provided by you.

**11.“INLAB” ENVIRONMENTAL TEST CHAMBER MICRO PLC Based TouchScreen**(HSN CODE :84198960)

Double walled construction exterior is made of SS 304 quality/ GI Powder coatedand interior is made of stainless steel 316 quality. A flush fitting insulate door has leak proof gasket. The shelf position of the trays is adjustable. The rear chamber of the interior is fitted with a refrigeration evaporator, heater and air circulating fan to create a positive air flow throughout the chamber. A hermetically sealed compressor below or above the chamber provides temperature below ambient. On the rear side of the chamber is housed a boiler with an immersion heater and water level controller for creating humidity. The control panel is provided at the top with Micro PLC based control system with touch screen display.

Model :**Humitherm Ultra**.

**Salient features**

Possible conditions of 25deg C - 60% RH, 40 deg c - 75% RH, 30 deg c - 70% RH, 30 deg C -65% RH

Accurate monitoring of temperature and humidity conditions

Powerful fan motor for forced air circulation for uniformity of conditions inside chamber within permissible limit

SS fin type heaters

Hermetically sealed compressor with CFC free refrigerant

Validation port

Adjustable trays

Auto tuning of temperature and humidity.

Battery backup for display of controller incase of power failure optional.

Low high alarm setting

Data aquisition software complying to 21 CFR part 11 as per US FDA guidelines. Supports multiple chambers.online data/ records display in graphical and tabular format. Auto start up on PC power up.

Centronics interface to record temperature,humidity,date and time and printing.

Print interval adjustable. ( printer not in our scope)

Power failure and resumption recorded with date and time

High temperature safety cut off and alarms for high/low set parameters.

Low water level alarm and power cut off for boiler tank heater

Time delay for compressor starting

Over load cut off relay for compressor

Validation for 8 point with temperature and humidity recording ( optional )

Standby Cooling Refrigeration system with auto switchover.( optional )

Standby Humidity System with auto switchover.( optional )

4 nos temperature and humidity sensor provided for scanning.( optional )

Full view glass / acrylic door is provided inside the chamber to view samples with interior illumination.

**OUTSIDE MADE OF GALVANIZED STEEL POWDER COAT PAINTED AND INSIDE MADE OF SS 316 QUALITY**

**SIZES:**

###### 6 CU FEET

H 820 MM X W 500MM X D 430 MM  **EACH 2,60,000.00**

CAPACITY: 170 LTRS

###### 8 CU FEET

H 870 MM X W 520MM X D500 MM  **EACH 2,70,000.00**

CAPACITY: 226 LTRS

**10 CU FEET**

H 970 MM x W 580 MM x D 500 MM  **EACH 2,82,000.00**

CAPACITY: 250 LTRS

##### 12 CU FEET

H 1020 MM x W 620 MM x D 530 MM **EACH 2,98,000.00**

CAPACITY: 325 LTRS

**Capacity:540litersEach3,60,000.00**

No Of Trays:6

Internal Dimension:660WX655DX1250H

External Dimension:800WX1095DX1820H

**Capacity:1000liters**

No Of Trays:6**Each4,92,000.00**

Internal Dimension:800W X 800D X 1580H

External Dimension:960W X 1370D X 2270H

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OUTSIDE ALSO MADE OF SS 304 QUALITY

###### 6 CU FEET

H 820 MM x W 500 MM x D 430 MM

CAPACITY: 170 LTRS. **EACH 2,98,000.00**

###### 8 CU FEET

H 870 MM X W 520MM X D500 MM  **EACH 3,09,000.00**

CAPACITY: 226 LTRS

**10 CU FEET**

H 970 MM x W 580 MM x D 500 MM

CAPACITY: 250 LTRS **EACH 3,20,000.00**

##### 12 CU FEET

H 1020 MM X W 620MM X D 530 MM

 CAPACITY: 325 LTRS **EACH 3,36,000.00**

**Capacity:540liters**

No Of Trays:6 **EACH 4,25,000.00**

Internal Dimension: 660WX655DX1250H

External Dimension: 800WX1095DX1820H

**Capacity:800 litresEach 4,85,000.00**

SIZE: 750W X 750 D X 1400H

**Capacity:1000liters EACH 5,79,000.00**

**No. of Trays:6**

Internal Dimension:800W X 800D X 1580H

External Dimension:960W X 1370D X 2270H

**Optional Accessories**

Data Logger (Temp / Humidity ) , 8 channels (4 temp + 4 Humidity ), Each 66,500.00

Supplied complete with sensors

Battery backup for display of controller incase of power failure Each 4,200.00

Smart Sensor (Temp &Humidity ) Each 16,300.00

GSM Mobile Alert ( Hardware ) Each 27,500.00

Standby Refrigeration Systems Each 44,000.00

( applicable for above 600 ltrs only )

Standby Humidity Systems Each 13,500.00

Magnetic Door Access Security SystemsEach 27,500.00

21 CFR part 11 compliant software Each Free of cost

Validation [Mapping] Consists of one Each 26,500.00

cycle for temperature and humidity at

any one set point for 24 hours on empty

and loaded condition.

**SPECIFICATIONS:**

Capacity – inner chamber: Already given

Temperature: 10°C to 60°C

Accuracy: ±1º C

Uniformity:±1º C

Humidity range: 40% to 95%

Accuracy: ± 2% RH

Uniformity : ± 3% RH

Chamber is made of: Double walled

Inner chamber made of :SS 316 quality

Outer chamber made of :SS 304 quality

Insulation :Glass wool

Circulation: Forced air circulation

Shelves:: Shelf runners with perforated removable shelves

No of Trays : 5

Door for visibility : Made of acrylic / Glass

Controller : PLC Based control system with touch screen display.

Sensor: Provided for both humidity and temperature

Heating element: Nichromewire with SS fins

Cooling device: HermeticallysealedKirloskar Copeland Heavy duty Compressor (Compressor CFC free model)

Boiler TankwithheaterReservoir water tank having float valves

Safety: Low water cut off with buzzer indication with indication of status in the controller.

Temperature safety: Protected by capillary thermostat

Alarm for low / high RH / Temperature: Provided

PC Interface with 21 CFR Software.

**Features of Humitherm Ultra Controller**

Please find attachment.

**INSTALLATION REQUIREMENTS:**

Servo stabilizer of 4 KVA rating is must for the installation of Humidity chamber to be provided by you.

Water tank with distilled water, tap, suitable hose are to be provided by you.

Air conditioner is a must for the stability chamber room.

**“INLAB” COOLING CABINET ( GMP MODEL ) ( HSN CODE : 8419 )**

Temperature range 2 to 8ºC. Double wall outer made of SS 304 quality and inside made of stainless steel 304 grade. Also air circulating fan is provided for maintaining uniform temperature throughout the chamber. A separate acrylic glass door is provided inside the chamber. Light is also provided inside the chamber and will be on during door opening. Nylon wheels are provided at the bottom for easy movement. A hermetically sealed compressor above the chamber provides temperature below ambient. The control panel is provided at the top with Micro PLC based advanced PID controller.

**Model: Labcon**

Labcon controller is provided with the following version:

Controller + Recorder + PC Software

**OUTSIDE ALSO MADE OF SS 304 QUALITY**

1. 6.1 cu. ft. H 830 mm X W 505 mm X D 415 mm **Each1,65,000.00**
2. 8 cu. ft. H 1030 mm X W 530 mm X D 430 mm**Each1,73,000.00**

Automatic Voltage stabilizer wall mounting type with time delay

Rating: 3 KWEach **3,900.00**

**Specification:**

Operating temperature range 2 to 8 deg C

Accuracy: ±1°C

Alarm provided for high / low temperature.

Whole system will trip incase of malfunction

**Note:**

Validation using four temperature probes for eight hours will cost extra.

**“INLAB” COOLING CABINET ( HSN CODE : 8419 )**

Temperature range 2 to 8ºC. Double wall outer made of GI powder coated and inside made of stainless steel 304 grade. Also air circulating fan is provided for maintaining uniform temperature throughout the chamber. A separate acrylic glass door is provided inside the chamber. Light is also provided inside the chamber and will be on during door opening. Nylon wheels are provided at the bottom for easy movement. A hermetically sealed compressor above the chamber provides temperature below ambient. The control panel is provided at the top with Micro PLC based advanced PID controller.

**Model: Labcon**

Labcon controller is provided with the following version:

Controller + Recorder + PC Software

**Note:** Voltage Stabilizer with time delay to be provided by customer.

**STAINLESS STEEL INSIDE & OUTSIDE MILD STEEL POWDER COATED**

1. 6.1 cu. ft. H 830 mm X W 505 mm X D 415 mm **Each 1,43,000.00**
2. 8 cu. ft. H 1030 mm X W 530 mm X D 430 mm**Each 1,50,000.00**

**Specification:**

Operating temperature range 2 to 8 deg C

Accuracy: ±1°C

Alarm provided for high / low temperature.

Whole system will trip incase of malfunction

**Note:**

Validation using four temperature probes for eight hours will cost extra.

**“INLAB” COOLING CABINET ( HSN CODE : 8419 )**

Temperature range 2 to 8ºC. Double wall outer made of GI powder coated and inside made of stainless steel 304 grade. Also air circulating fan is provided for maintaining uniform temperature throughout the chamber. Microprocessor based electronic digital temperature controller cum indicator gives an accuracy of ± 1ºC. A separate acrylic glass door is provided inside the chamber. Light is also provided inside the chamber and will be on during door opening. Nylon wheels are provided at the bottom for easy movement. A hermetically sealed compressor, condenser fan motor and all other accessories are provided at the top of the unit. CFC free R134 gas is used for the compressor for user free environmental.

**Model: Omnix**

**Note:** only best quality motor namely “Rexnord” make is used for air circulation inside.

(Voltage Stabilizer with time delay to be provided by customer.)

**STAINLESS STEEL INSIDE & OUTSIDE MILD STEEL POWDER COATED**

1. 6.1 cu.ft. H 830 mm X W 505 mm X D 415 mm **Each 1,04,000.00**
2. 8 cu.ft.H 1030 mm X W 530 mm X D 430 mm**Each 1,09,000.00**

**Specification:**

Operating temperature range 2 to 8 deg C

Accuracy: ±1°C

Alarm provided for high / low temperature.

Whole system will trip incase of malfunction

**Note:**

Validation using four temperature probes for eight hours will cost extra.

12. “**INLAB” DIGITAL TABLET FRIABILITY TEST APPARATUS**

**(HSN CODE : 9027)**

Digital friability test apparatus with programmable rotation time with digital display

Motorized addition / Removal of tablets without opening the drum

Auto stop with audio alarm

Digital LED Display.

Unit with single drum -**EACH 26,000.00**

Unit with double drums -**EACH 31,000.00**

**13.“INLAB “ FUME HOOD ( HSN CODE: 8419 )**

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**Material of Construction :**

**Outer : The cabinet is fabricated using G.I.(Galvanized steel) sheets with 120 gsm (grams per sq. m) of zinc deposition of zero spangled nature to aid better powder coating absorption.(dry film). CRCA corrodes and hence should be avoided.**

**Powder Coating Finish ;**

 **The G.I. panels are coated with pure epoxy type powder coating of minimum thickness (60-80 microns) with electrostatic difference and baked at high temperature (160 ̊C) for glossy aesthetic finish.**

**Epoxy polyester type powder should be avoided for better chemical resistance and wear resistance**

**Material of Construction :**

**Inner: 4 MM thick FRP sheet**

**Door : Single, vertical sliding, concealed type door, balanced with counter weights, sash weights and wire rope etc.**

**Ducting : Rigid ducting of PVC of 150mm dia. 4mm thick rigid PVC pipe will be provided with suitable rain- hood.**

**Baffle : A stable, non – adjustable baffle with a single slot on the back**

**baffle to aid in distributing the flow of air into and through the hood. The baffle shall be spaced out from the back liner and shall be removable for cleaning.**

**Impeller : Dynamically balanced PP Impeller**

**Baffled By : 4 MM thick FRP sheet**

**Centrifugal Blower In-Built Blower : Branded 3 Phase motor Silent high efficiency remote blower consisting of continuous rating motor and chemical resistant impeller. The blower is designed to give a face velocity at safe working height as per the international safe velocity norms (ANSI). The exported face velocity at open sash is 100 FPM. The blower body is FRP UV treated high density and chemical (corrosion) resistant and is mounted on a metallic stand.**

**Casing : 6MM thick FRP Bisphenol ‘A’ fumerate Resin.**

**Coupling : Direct**

**Sash : The sash shall be of glass with vertical rising frame.**

**The bottom of the sash frame shall have a full length handle. The sash shall be counterbalanced with a weights to prevent titling and binding during operation. The glass panel shall be 5mm toughened glass.**

**Suction Expected : 800-1000 cfm**

**Colour : Optional**

**AMENITIES (Included):**

**Lighting : 1 No. 4 feet Tube light of 28 Watts will be Provided.**

**Electrical Arrangements : The hood super structure shall be fully wired. It also has 04 No’s. Electrical sockets and switches of (230V, 5/15A, 50HZ)**

**Cable Entering Port :For easy access of**

**cables from fume hood to electrical sockets.**

**Dimension : 900 L x 600 W x 2400 H in mm Each 1,11,500.00**

**Bed Size : 700 x 500**

Size : 1200 x 750 x 2400 mm (LxBxH) Each 1,30,500.00

 **Bed Size: 1000x650 in mm**

**Dimension :1500 L x 750 W x 2400 H in mm Each 1,38,000.00**

**Bed Size :1200 x 700 in mm**

**Dimension :1800 L x 900 W x 2400 H in mm Each 1,76,500.00**

**Bed Size :1500 x 800 in mm**

**Note : 3 phase power supply is required for 1 hp motor provided in the fume hood.**

**12. "INLAB” HOT AIR OVEN (BOTTOM HEATED)(HSN CODE : 8514 )**

Temperature Range 1800 C. Digital Temperature Controller with an Accuracy of ±2ºC. Heating Element are Provided at the Bottom only. Double Walled Inside Stainless Steel and Outside Mild Steel Powder Coat Finish with Trays and Air Circulating Fan works on 220 volts A.C.

**STAINLESS STEEL INSIDE CHAMBER**

355W X 355B X 355H (mm) 40 LITRES **EACH 38,000.00**

 455W X 455B X 455H (mm) 90 LITRES **EACH 47,000.00**

 455W X 455B X 605H mm 120 LITRES **EACH 48,500.00**

 605W X 605B X 605 H mm 210 LITRES **EACH 51,500.00**

 605W X 455B X 910H mm  **EACH 70,500.00**

 605W X 605B X 910H mm **EACH 77,000.00**

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**“INLAB”HOT AIR OVEN ( ECONOMY MODEL )(HSN CODE:8514)**

Hot air oven back side heater inner side stainless steel outside MS powder coated with air circulating fan and digital temperature controller cum indicator

Size:

300 x 300 x 300mm **Each26,000.00**

No of trays - 1 No

355 x 355 x 355mm  **Each30,000.00**

No of trays - 1 No

455 x 455 x 455mm  **Each36,000.00**

No of trays - 1 No

605 X 605 X 605 mm**Each 44,000.00**

No of trays - 1 No

**Less 20% Discount**

**"INLAB” HOT AIR OVEN ( BACKSIDE HEATER ) ( HSN CODE : 8514 )**

Elements are placed at the sides and bottom. Temperature 5°C above ambient to 220°C but recommended working temperature is 180°C.Digital Temperature Controller Micro Processor Based is provided with an accuracy of ± 1°C. Double walled inside stainless steel and outside mild steel sheet, powder coat finish with shelves and Air Circulating Fan works on 220 volts A.C.

**STAINLESS STEEL INSIDE CHAMBER**

355W X 355B X 355H mm  **Each 30,000.00**

455W X 455B X 455H mm  **Each 37,000.00**

455W X 455B X 605H mm**Each 44,000.00**

**13. (A) “INLAB” HOT AIR OVEN( UNIVERSAL)(HSN CODE : 8514 )**

Elements are placed at the sides and bottom. Temperature 50c above ambient to 220ºc but recommended working temperature is 180ºC.Digital Temperature Controller Micro Processor Based is Provided with an accuracy of ± 1°C. Triple walled inside stainless steel and outside mild steel sheet, powder coat finish with shelves and Air Circulating Fan works on 220 volts A.C.

**STAINLESS STEEL INSIDE CHAMBER**

355W X 355B X 355H mm **EACH 44,000.00**

455W X 455B X 455H mm **EACH 50,500.00**

455W X 455B X 605H mm **EACH 57,000.00**

605W X 605B X 605H mm **EACH 66,200.00**

605W X 455B X 910H mm **EACH 81,000.00**

605W X 605B X 910H mm **EACH 87,500.00**

905W X 905B X 910H MM **EACH 1,21,000.00**

 **(B) “INLAB” HOT AIR OVEN -GMP MODEL**

Elements are placed at the sides and bottom. Temperature 5°C above ambient to 220°Cbut recommended working temperature is 180°C.Digital Temperature Controller Micro Processor Based is Provided with an accuracy of ± 2°C. Triple walled inside and outsidestainless steel 304 grade finish .with shelves and Air Circulating Fan works on 220 volts A.C.

**STAINLESS STEEL INSIDE CHAMBER**

355W X 355B X 355H mm **EACH 61,000.00**

455W X 455B X 455H mm **EACH 70,000.00**

455W X 455B X 605H mm **EACH 82,000.00**

605W X 605B X 605H mm **EACH 97,000.00**

Inner: 605W X 455B X 910H mm **EACH 1,06,000.00**

(Outer: 890W x 660B x 1320H mm)

605W X 605B X 910H mm **EACH 1,12,500.00**

1. **"INLAB” RECTANGULAR HOT PLATE(HSN CODE : 84198190)**

 Rectangular stainless steel top with 3 heat switch pilot lamp and energy regulator outer body made of MS powder coated

**SIZERATING**

10 X 12" 1.2 KW EACH 10,500.00

10 X 16" 1.5 KW EACH 11,500.00

12 X 18" 2.0 KW EACH 12,800.00

18 X 24" 3.0 KW EACH 19,800.00

**SPECIFICATION:**

* Outer Body : made of mild steel 1mm thickness double side powder coated around 90 to 100 microns.
* Top plate : made of SS 304 industrial grade 5 or 6mm thickness.
* Temperature range : ambient to maximum 300 deg C.
* Heating element : kanthal A1 grade
* Temperature controlled by : energy regulator.
* 3 way Selector switch : to select low or high temperature.
* Indicator : 2 nos for main and control.
* Wire cord : special type moulded wire cord.
* Bottom : 4 nos of nylon bush

**OPTIONAL:**

Separate control panel box including digital temperature controller cum indicator micro process based with display of set value and process value, pilot lamp, probe and main switch **Each Rs. 9,500.00**

**“INLAB” CIRCULAR HOT PLATE (HSN CODE : 84198190)**

Circular with stainless steel top complete with indicator lamp and energy regulator in Powder coat finish.

**SIZERATING**

8" DIA 1 KW EACH 7,200.00

10” DIA 1.5 KW EACH 9,000.00

12" DIA 1.5 KW EACH 10,200.00

**SPECIFICATION:**

* Outer Body : made of mild steel 1mm thickness double side powder coated around 90 to 100 microns.
* Top plate : made of SS 304 industrial grade 5 or 6mm thickness.
* Temperature range : ambient to maximum 300 deg C.
* Heating element : kanthal A1 grade
* Temperature controlled by : energy regulator.
* 3 way Selector switch : to select low or high temperature.
* Indicator : 2 nos for main and control.
* Wire cord : special type moulded wire cord.
* Bottom : 4 nos of nylon bush

**OPTIONAL:**

Separate control panel box including digital temperature controller cum indicator micro process based with display of set value and process value, pilot lamp, probe and main switch**EachRs. 9,500.00**

**15 .“INLAB”HUMIDITY CABINETORDINARY MODEL(HSN CODE : 8419 )**

The humidity cabinet is a double walled unit.

The outer is made of mild steel powder coated and the inner is made of stainless steel 304 quality.

Glass wool is packed in between the walls.

A boiler unit with immersion heater and a reserve tank with constant water level arrangement by means of a float valve is mounted at the rear of the unit. This creates humidity inside the chamber.

Air heater arranged inside provides the dry temperature.

Air circulating fan is provided at the back of the unit to maintain uniform temperature and humidity inside the chamber.

The temperature range is 5 deg above ambient to 60 deg c and the humidity range is from atmospheric humidity to 95%.

A microprocessor based digital controller controls both temperature and humidity.

Temperature accuracy is plus or minus 1 deg c ad the humidity accuracy is plus or minus 3%.

A flush fitting insulated door has a leak proof gasket and acrylic door is also provided.

The whole unit is mounted on castor wheels for easy movement.

**STAINLESS STEEL INTERIOR 304 QUALITY**

**SizeS :**

455wX455dx710h MM **EACH 98,000.00**

605wX605dx605h MM **EACH 1,09,500.00**

605wX605dx910h MM  **EACH 1,26,000.00**

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**STAINLESS STEEL EXTERIOR 304 QUALITY**

**SizeS:**

455wX455dx710h MM **EACH 1,26,000.00**

605wX605dx605h MM **EACH 1,47,000.00**

605wX605dx910h MM  **EACH 1,70,000.00**

**SPECIFICATIONS:**

Capacity – inner chamber : Already given

Temperature: 5 above ambient to 40

Accuracy : ±1º C

Humidity range : atmospheric humidity to 95%

Accuracy: ± 3% RH

Chamber is made of : Double walled

Inner chamber made of : SS 304 quality

Outer chamber made of : galvanized steel Powder Coated

Optional : SS 304 Quality

Insulation : Glass wool

Circulation: Forced air circulation

Shelves : Shelf runners with perforated removable shelves

Door for visibility: Made of acrylic

Controller: Micro processor based PID type

Sensor : for both temperature and humidity provided

Heating element: Nichromewire with SS fins

Boiler Tank: SS refractory type heater Reservoir water tank having float valves

Safety: Low water cut off indication through pilot lamp.

Temperature safety: Protected by capillary thermostat

Provision for inserting humidity and temperature probe for validation provided.

**17. (A) “INLAB”INCUBATOR(BOTTOM HEATED)**

Temperature 5ºC above ambient to 60ºC.digital temperature controller with a sensitivity of ±1ºC. Heating elements are provided at the bottom only. Double walled inside stainless steel and outside mild steel sheet, powder coat finish with shelves and with air circulating fan works on 220 Volts A.C.

**STAINLESS STEEL INSIDE CHAMBER**

355 W X 355 B X 355 H (mm) **EACH 38,000.00**

455 W X 455 B X 455 H (mm) **EACH 47,000.00**

455 W X 455 B X 605 H mm  **EACH 48,500.00**

605 W X 605 B X 605 H mm **EACH 51,500.00**

605 W X 455 B X 910 H mm  **EACH 70,500.00**

605 W X 605 B X 910 H mm **EACH 76,700.00**

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**“INLAB”INCUBATOR ( ECONOMY MODEL )(HSN CODE:8419)**

Incubator back side heater inner side stainless steel outside MS powder coated with air circulating fan and digital temperature controller cum indicator

Size:

300 x 300 x 300mm **Each26,000.00**

No of trays - 1 No

355 x 355 x 355mm  **Each30,000.00**

No of trays - 1 No

455 x 455 x 455mm **Each36,000.00**

No of trays - 1 No

**Less 20% Discount**

**(B) "INLAB” INCUBATOR ( UNIVERSAL ) (BACTERIOLOGICAL INCUBATOR )**

**(HSN CODE:8419)**

Elements are placed at the sides and bottom. Temperature 5deg c above ambient to 60ºc. Digital Temperature Controller Micro Processor Based is provided with an accuracy of ± 1°C. Triple walled inside stainless steel and outside mild steel sheet, powder coat finish with shelves and Air Circulating Fan works on 220 volts A.C.

STAINLESS STEEL INSIDE CHAMBER

355W X 355B X 355H mm **EACH 44,000.00**

455W X 455B X 455H mm **EACH 50,500.00**

455W X 455B X 605H mm **EACH 57,000.00**

605W X 605B X 605H mm **EACH 66,000.00**

Inner: 605W X 455B X 910H mm **EACH 81,000.00**

(Outer: 890W x 660B x 1320H mm)

605W X 605B X 910H mm **EACH 87,000.00**

**C) "INLAB” INCUBATOR UNIVERSAL– GMP MODEL**

Elements are placed at the sides and bottom. Temperature 50c above ambient to 60ºc. Digital Temperature Controller Micro Processor Based is provided with an accuracy of ± 1°C. Triple walled inside and Outsidestainless steel 304 grade finishwith shelves and Air Circulating Fan works on 220 volts A.C.

**STAINLESS STEEL INSIDE CHAMBER**

355W X 355B X 355H mm **EACH 61,000.00**

455W X 455B X 455H mm **EACH 70,000.00**

455W X 455B X 605H mm **EACH 82,000.00**

605W X 605B X 605H mm **EACH 97,000.00**

 605W X 455B X 910H mm **EACH 1, 06,000.00**

(Outer: 890W x 660B x 1320H mm)

605W X 605B X 910H mm **EACH 1,12,500.00**

1. **“INLAB” LAMINAR FLOW WORK STATION(HSN CODE :84213920)**

**Laminar AirFlow - Horizontal**

**Horizontal Laminar Airflow system allows operations in sterile and particle free conditions because the continuous flushing of the working area by a unidirectional and horizontal and filtered airflow, it assures a full product protection.**

**Cleanliness :ISO Class 5 as per ISO 14644-1**

 **Direction of flow :Horizontal**

 **Particle Retention :0.3 Micron & Above**

**Noise Level :65 decibel on “A” Scale ± 5**

**Velocity : 90 feet / Minute ± 20**

 **Work table : By IS 304 Grade Stainless Steel surface**

 **Front door : by 4 mm thick Polycarbonate – Foldable Type**

**Side Panel U V :by 4 mm thick polycarbonate Sheet Panel**

**lamp Illumination :Make – PHILIPS**

 **Pressure (ΔP) :LED Tube Fittings**

 **Other : Inclined Manometer/ MagnehelicGuage 0 – 25 mm range**

**Accessories :Inclined Manometer/ MagnehelicGuage 0 – 25 mm range**

**Power Supply : 230 V, Single phase, 50 HZ**

**HEPA Filter:**

**Media : Ultra Clean glass fiber paper – imported**

**Type : Mini-Pleat HEPA Filter, Separator less**

**Retention : 0.3 Micron with a max.25mm WG**

**Efficiency : 99.97%**

**Grade : H13 Rating**

**PRE Filter:**

**Media : Synthetic, Non-Woven Polyester fibers**

**Casing : GI with PU coated frame**

**Retention : 5 Micron & above**

**Efficiency : 95%**

**Material ofConstruction:**

**Option: 1 The cabinet made from Galvanized Iron 18 SWG Sheet metal with Powder**

**coating finish**

**Option: 2 The complete cabinet in IS 304 grade SS construction with stain finish**

**Blower Assembly Outer rotor type blower system, Which consists of dynamically & statically balanced aluminum centrifugal impeller driven by a single phase motor,enclosed in an PU coated GI casing & directly connected to the chamber**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Direction of Flow |  | Horizontal |  |  |
|  |  |  |  |  |
| Model No | SH 0600 | SH 0900 | SH 1200 | SH 1800 |
|  |  |  |  |  |
| Working Size-In ft(w x d x h) | 2 x 2 x 2 | 3 x 2 x 2 | 4 x 2 x 2 | 6 x 2 x 2 |
|  |  |  |  |  |
| GI with Powder Coating | 71,500.00 | 80,000.00 | 1,08,000.00 | 1,37,500.00 |
|  |  |  |  |  |
| **Complete IS 304 grade SS** | 1,03,000.00 | 1,22,000.00 | 1,50,000.00 | 1,92,000.00 |
|  |  |  |  |  |

**Vertical Laminar Airflow**

Vertical Laminar Airflow system allows operation in sterile and particle free conditions because the continuous

flushing of the working area by aunidirectional and vertical and ultra filtered airflow, it assures

a full product protection.

Cleanliness : IISO Class 5 as per ISO 14644-1

Direction of flow : Vertical

Particle Retention : 0.3 Micron & Above

Noise Level : 60 decibel on “A” Scale ± 5

Velocity :90 feet / Minute ± 20

Work table : By IS 304 Grade Stainless Steel surface

Front door :by 4 mm thick Polycarbonate – Sliding Type

 Side Panel : by 4 mm thick polycarbonate Sheet Panel

U V lamp : Make – PHILIPS

Illumination : LED Light Fittings

Pressure (ΔP) : Inclined Manometer/ MagnehelicGuage 0 – 25 mm range

 Other accessories : 5 / 15 Amp power point, Gas inlet & Castor Wheels/Optional

Power Supply : 230 V, Single phase, 50 HZ

HEPA Filter:

Media : Ultra Clean glass fiber paper – imported

Type : Mini-Pleat HEPA Filter, Separator less

Retention : 0.3 Micron

Efficiency : 99.99%

Grade : H13 Rating

PRE Filter:

Media : Synthetic, Non-Woven Polyester fibers

Casing : GI with PU coated frame

Retention : 5 Micron & above

Efficiency : 95%

**Material of Construction:**

Option: 1 The cabinet made from Galvanized Iron 18 SWG Sheet metal with Powder

Powder coating finish

Option: 2 The complete cabinet in IS 304 grade SS construction with stain finish

Blower Assembly Outer rotor type blower system, Which consists of dynamically & statically

balanced aluminum centrifugal impeller driven by a single phase motor, enclosed in an PU coated

 GI casing & directly connected to the chamber.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Direction of Flow |  | Vertical |  |  |
|  |  |  |  |  |
| Model No | SV 0600 | SV 0900 |  | SV 1800 |
|  |  |  |  |  |
| Working Size-In ft(w x d x h) | 2 X 2 X 2 | 3 X 2 X 2 | 4 X 2 X 2 | 6 X 2 X 2 |
|  |  |  |  |  |
| GI with Powder Coating | 84,000.00 | 98,000.00 | 1,16,500.00 | 1,63,000.00 |
|  |  |  |  |  |
| **Complete IS 304 grade SS** | 1,16,500.00 | 1,35,500.00 | 1,88,000.00 | 2,27,000.00 |
|  |  |  |  |  |

**21. "INLAB” MUFFLE FURNACE – 930°C(HSN CODE: 85141000)**

Light weight model with ceramic wool insulation maximum working Temperature up to 930ºC and recommended regular workingTemperature not to exceed 850ºC.Kanthol element is wound over the muffle and well insulated. Temperature is controlled by Digital temperature controller cum indicator suitable thermocoupleis provided. Heating elements are made of kanthal wire special high temperature alloy to ensure uniformdistribution of heat. Works on 220/230 A.C.

 .

**SIZES:**

10 X 10 X 23 (cm), Rating: 1.75 kw **EACH 39,000.00**

( 4 x 4 x 9 )

 13 X 13 X 25 (cm), Rating: 2.5 **EACH 42,500.00**

( 5 x 5 x 10 )

15 X 15 X 30 (cm), Rating: 3 kw **EACH 47,500.00**

( 6 x 6 x 12 )

**OPTIONAL SPARES:**

THERMO COUPLE Cr/Al **EACH 1,400.00**

**“INLAB” MUFFLE FURNACE : 1000°C ( HSN CODE : 8514 )**

Light weight Model with ceramic insulation grooved type outer body made of thick mild steel sheet. Inside chamber is made ofsilluminategrooved refractory for supporting the heating elements on four sides. Heating elements are made of imported Kanthalwireand easily replaceable.Recommended regular Working temperature is 1000ºCwith Microprocessor Based Digital Temperature Controller cum indicator. Thermocouple is also provided. Works on 200/220 volts ac.

**SIZES:**

10 X 10 X 23 (CM), Rating: 2 KW  **EACH 43,000.00**

13 X 13 X 25 (CM), Rating: 3 KW  **EACH 47,000.00**

15 X 15 X 30 (CM), Rating: 3.75 KW**EACH 52,500.00**

**OPTIONAL SPARES:**

THERMO COUPLE Cr/Al **EACH 1,400.00**

**“INLAB” MUFFLE FURNACE - 1000°C GMP MODEL( HSN CODE : 8514 )**

Light weight Model complete made of Stainless Steel 304 quality with tubular structure with ceramic insulation grooved type. Inside chamber is made of SS Silluminate grooved refractory for supporting the heating elements on four sides. Heating elements are made of imported Kanthal A1 wire and easily replaceable. Recommended regular Working temperature is 1000ºC.complete with Microprocessor Based Digital Temperature Controller cum indicator with, thermocouple. Works on 230 volts Ac.

**Size:**

10 X 10 X 23CM 2 KW Each 48,500.00

13 X 13 X 25 CM 3 KW Each 53,000.00

15 X 15 X 30 CM 3.75 KW Each 58,500.00

**“INLAB” MUFFLE FURNACE – 930°C GMP MODEL( HSN CODE : 8514 )**

Light weight model completely made of Stainless Steel 304 quality with tubular structure with ceramic wool insulation maximum Temperature up to 1000ºC and recommended regular working Temperature not to exceed 930ºC. Temperature is controlled by Digital temperature controller cum indicator suitable thermocouple is provided.Heating elements are made of kanthal wire special high temperature alloy and wound over the muffle and well insulated to ensure uniform distribution of heat. Works on 220/230 A.C.

**Size:**

10 X 10 X 23 cm 1.75 kw EACH 45,000.00

13 X 13 X 25 cm 2.5 kw EACH 48,500.00

15 X 15 X 30 cm 3 kw EACH 54,000.00

**“INLAB” MUFFLE FURNACE - 1200°C ( HSN CODE : 8514 )**

( Working Temperature: 1100ºC )

Working temperature 1100ºC. This furnace is insulated with ceramic fiber blanket of high density for better insulation. The furnace can run continuously at 1100ºc. Furnace is quick heating type, light in weight, table mounting type compact design. Elements are placed on all the four sides inner chamber grooved type made of silluminaterefractory and outer made of GI sheet nicely painted the door is also insulated **with** ceramic fiber to avoid heat losses from the door. Heating Elements are made of Nichrome / Kanthol A1.The furnace is fitted with digital temperature controller cum indicator to avoid overheating.A suitable thermocouple is also provided.For long life and trouble free working the panel is mounted on the Bottom of the furnace.

Size: 6W x 6H x 12D“

Recommended Regular Working

Temperature Range: 1100ºC. **Each 66,000.00**

 **“INLAB” Muffle Furnace – 1200 deg C**

 (Working Temperature: 1150 deg C)

Working temperature 1150ºC. This furnace is insulated with ceramic fiber blanket of high density for better insulation. The furnace can run continuously at 1150ºC. Furnace is quick heating type, light in weight, table mounting type compact design. Elements are placed on all the four sides inner chamber grooved type made of silluminate refractory and outer made of GI sheet nicely painted the door is also insulated **with** ceramic fiber to avoid heat losses from the door. Heating Elements are made of Nichrome / Kanthol A1.The furnace is fitted with thyristor control device

A suitable thermocouple is also provided.

For long life and trouble free working the panel is mounted on the Bottom of the furnace.

Size: 6 W x 6 H x 12 D “ Each 78,500.00

 Recommended Regular Working temp: 1150 deg C

**“INLAB” MUFFLE FURNACE - 1200°C GMP MODEL ( HSN CODE : 8514 )**

( Working Temperature: 1100ºC )

Working temperature 1100ºC. This furnace is insulated with ceramic fiber blanket of high density for better insulation. The furnace can run continuously at 1100ºc. Furnace is quick heating type, light in weight, table mounting type compact design. Elements are placed on all the four sides inner chamber grooved type made of silluminaterefractory and outer made of SS sheet 304. The SS door is also insulated **with** ceramic fiber to avoid heat loss. Heating Elements are made of Nichrome / Kanthol A1.The furnace is fitted with digital temperature controller cum indicator to avoid overheating.

A suitable thermocouple is also provided. For long life and trouble free working the panel is mounted on the Bottom of the furnace

**Size:** 6W x 6H x 12D“

Recommended Regular Working **Each 82,000.00**

Temperature Range: 1100ºC.

**“INLAB” MUFFLE FURNACE - 12000( Special Type )**

The muffle furnace has an external wall made of mild steel sheet and finished in powder coating paint. Inner chamber is formed by high temperature with standing Vaccum board followed by ceramic Fibre blankets on all sides. The door is made of double wall and is mounted on heavy duty Hinges in the front. The door is provided with a limit switch to cut off the power supply. When the door is opened.This will restart after closure. Temperature is maintained and controlled by Digital PID temperature controller with thyristor control device working in conformity with pt/pt/rh/13% thermocouple. Heating Elements are Made of silicon corbiderodThis is on a control panel with other accessories.

**Specifications:**

Size : 12 x 6 x 6”

Rating : 3 Kilowatt

Heating elements : by silicon carbide rods.

Operating temperature : 1200° centigrade  **EACH 1,48,000.00**

1. **“INLAB” PRECISION MELTING POINT CUM BOILING POINTAPPARATUS**

**( THERMOMETER MODEL)( HSN CODE : 9027 )**

Supplied with built-in stirrer, capillary tubes, thermometer,2Nos Boiling Tubes, Silicon Oil and Instruction

Manual.  **EACH 18,000.00**

**"INLAB” DIGITAL MELTING POINT CUM BOILING APPARATUS ( HSN CODE : 9027 )**

Supplied with built-in stirrer, capillary tubes, 2Nos

Boiling Tubes Silicon Oil and Instruction Manual

**Salient Features:**

* 1. Suitable for accurate determination of melting point. melting range.
	2. Suitable to determine boiling point of liquids.
	3. Compact design with digital display of temperature.
	4. Rate of heating can be adjusted precisely by electronic controller
	5. Silicone oil bath with built-in magnetic stirrer and sensitive temperature sensor.
	6. Glare free illuminator and large magnifier for strain – free observations.
	7. Melting rangeupto 300 deg C

**TEMPERATURE READABILITY: 0.1ºC.**   **EACH 30,000.00**

**23) “INLAB” ORBITAL SHAKING INCUBATOR (BELOW AMBIENT)**

**(HSN CODE : 84798200)**

This is constructed of double wall. The exterior is made of mild steel sheet powder coat painted and the interior is made of stainless steel of 304 quality. Air circulating fan provided, keeps the temperature uniform inside the chamber. A transparent door provided in the front enables inspection of specimen inside without the disturbing the temperature. The control panel incorporates a regulator forcontrolling the speed, a digital rpm meter and digital temperature controller cum indicator. Temperature ranges from 5 deg. C. to 60 deg. C.Andhasan accuracy of ± 0.5deg. C. Shaking speed is variable from50 to 250 rpm. The shaking platform can accommodate 9 x250ml conical flask. Any other platform suitable to different size for conical flask shall also be provided at extra cost.

**Specification:**

Inner : S.S

Outer : MS Powder Coated

Plat Form Size : 450 x 450 mm

Orbital Motion : 50 mm

Temp Range : +5°C to 60°C Max

RPM : 50 to 250 RPM

Timer: 0 to 999 minutes

Platform Cap : 9 X 250 ML CONICAL FLASK

Additional platform for different flasks capacitywithin in the available space**EACH 1,54,500.00**

**ORBITAL SHAKING INCUBATOR (above ambient)Each 1,10,500.00**

**MAKE: INLAB**

This is constructed of double wall. The exterior is made of mild steel sheet powder coat painted and the interior is made of stainless steel of 304 quality. Air circulating fan provided, keeps the temperature uniform inside the chamber. A transparent door provided in the front enables inspection of specimen inside without the disturbing the temperature. The control panel incorporates a variac for controlling the speed, a digital rpm meter and digital temperature controller cum indicator. The temperature ranges from 5 deg. C. above ambient to 60 deg. C. And has an accuracy of ± 0.5deg. C. Shaking speed is variable from 50 to 250 rpm. The shaking platform can accommodate 9 x 250ml conical flask. Any other platform suitable to different size for conical flask shall also be provided at extra cost.

**Specification:**

**Inner : S.S**

**Outer : MS Powder Coated**

**Plat Form Size : 450 x 450 mm**

**Orbital Motion : 50 mm**

**Temp Range :+5°C to 60°C Max**

**RPM : 50 to 250 RPM**

**Timer: 0 to 999 minutes**

**Platform Cap : 9 X 250 ML CONICAL FLASK**

**Additional platform for different flasks capacitywithin in the available space**

**ORBITAL SHAKING INCUBATOR**

**(below ambient) POR**

**MAKE: INLAB GMP MODEL**

This is constructed of double walled. The inner and outer also made of stainless steel exterior is made of SS304 and the inner is SS316. AN Air circulating fan provided, to keeps the temperature uniform inside the chamber. A transparent door provided in the front for enables inspection of specimen inside without disturbing the temperature. The control panel incorporates a variac for controlling the speed, a digital rpm meter and digital temperature controller cum indicator. The temperature ranges from 5 deg. C. to 60 deg. C. And an accuracy of ± 0.5deg. C. Shaking speed is variable from 50 to 250 rpm. The shaking platform can accommodate 9 x 250ml conical flask. Any other platform suitable to different size for conical flask shall also be provided at extra cost.

Suitable Tube lights also provide in both sides for clear viewing.

**”INLAB”ORBITAL SHAKER**

Shaking speed is variable from 50 to 250 rpm digital speed meter is provided in the instrument. on/off switch with pilot lampare also provided in the control panel.

Platform Cap :9 X 250 ML CONICAL FLASK **EACH POR**

Additional platform for different flasks capacity

within in the available space  **EACH POR**

24. **”INLAB”OIL BATH – HIGH TEMPERATURE(HSN CODE :8419)**

Double Walled Mild Steel Exterior PowderCoat Painted and SS Interior.

TemperatureRange 500 C To 2500 C. ±1 Deg.C . Temperature

Controlled By Electronic Temperature Controller Cum Indicator. A Glass Windows Provided In The Front For Viewing. CompleteWith Stirrer Cum Pumping Unit With Speed Regulator. SS Cover is also provided. Works On 220 Volts AC.

**SIZE:**

430 L X 240 B X 265 H (MM)  **EACH 43,000.00**

**“ INLAB “ OIL BATH ( HSN CODE : 8419 )**

**The cylindrical model double walled oil baths inner and outer both made of complete stainless steel 304 grade argon arc welded nicely polished. Temperature is controlled by microprocessor based temperature controller cum indicator with timer. An accuracy of ±1ºC with rings and without oil. Temperature range ambient ±5ºC to 250ºC works on 220v AC.**

**Size : 300 x 250 mm Each 31,500.00**

**15 Liters Capacity**

**Size : 250 x 200 Each 28,500.00**

**10 liters capacity**

**Size: 200 x 150 Each 21,000.00**

**5 liters capacity**

**Size : 150 x 125 Each 14,000.00**

**2 liters capacity**

**25. ”INLAB”PLANT GROWTH CHAMBER (HSN CODE : 84198960)**

Same as environmental chamber but the lights are provided from two sides and the top. The front door has a view glass. **Each POR**

**“INLAB” PLANT GROWTH CHAMBER MICRO PROCESSOR MODEL IMPROVED VERSION (HSN CODE : 8419 )**

Double walled construction exterior is made of sheet steel powder coated and interior is of stainless steel 316 quality. A flush fitting insulate door has leak proof gasket. The shelf position of the trays is adjustable. The rear chamber of the interior is fitted with a refrigeration evaporator, heater and air circulating fan to create a positive air flow throughout the chamber. A hermetically sealed compressor below or above the chamber provides temperature below ambient. On the rear side of the chamber is housed a boiler with an immersionheater and water level controller for creating humidity. The control panel is provided at the top with Micro Controller based PID temperature, humidity controller PPI Make, **Model Humitherm–Plus**

Chamber is provided with 4 nos of 2 feet LED lights with cyclic timer

**Salient features**

Tempearture range 10°C to 60°C, humidity Range 40% to 95% RH

Accurate monitoring of temperature and humidity conditions

Powerful fan motor for forced air circulation for uniformity of conditions inside chamber within permissible limit

SS fin type heaters

Hermetically sealed compressor with CFC free refrigerant

Validation port

Adjustable trays

MP controller with LCD display directly displaying temperature and humidity with temperature and capacitance type sensor

Auto tuning of controller with battery back up

Low high alarm setting

Data aquisition software complying to 21 CFR part 11 as per US FDA guidelines. Supports multiple chambers.online data/ records display in graphical and tabular format. Auto start up on PC power up.

Centronics interface to record temperature,humidity,date and time and printing.

Print interval adjustable. ( printer not in our scope)

Power failure and resumption recorded with date and time

High temperature safety cut off and alarms for high/low set parameters.

Low water level alarm and power cut off for boiler tank heater

Time delay for compressor starting

Over load cut off relay for compressor

Validation for 8 point with temperature and humidity recording ( optional )

**OUTSIDE MADE OF GALVANIZED STEEL POWDER COAT PAINTED AND INSIDE MADE OF SS 316 QUALITY**

**SIZES:**

6 CU FEET

H 820 MM X W 500MM XD 430 MM EACH 2,65,000.00

CAPACITY: 170 LTR

8 CU FEET

H 870 MM X W 520MM X D500 MM EACH 2,76,000.00

CAPACITY: 226 LTRS

10 CU FEET

H 970 MM x W 580 MM x D 500 MM EACH 2,87,000.00

CAPACITY: 250 LTRS

12 CU FEET

H 1020 MM x W 620 MM x D 530 MMEACH 2,98,000.00

CAPACITY: 325 LTRS

--------------------------------DO----------------------------------

**OUTSIDE ALSO MADE OF SS 304 QUALITY**

6 CU FEET

H 820 MM x W 500 MM x D 430 MM

CAPACITY: 170 LTRS. EACH 2,92,000.00

8 CU FEET

H 870 MM X W 520MM X D500 MM EACH 3,02,000.00

CAPACITY: 226 LTRS

10 CU FEET

H 970 MM x W 580 MM x D 500 MM

CAPACITY: 250 LTRS EACH 3,14,000.00

12 CU FEET

H 1020 MM X W 620 MM X D 530 MM

CAPACITY: 325 LTRS EACH 3,24,500.00

**Optional Accessories**

Data Logger (Temp / Humidity ) , 8 channels (4 temp + 4 Humidity ), Each 66,000.00

Supplied complete with sensors

Smart Sensor (Temp &Humidity ) Each 16,500.00

GSM Mobile Alert ( Hardware ) Each 27,500.00

Standby Refrigeration Systems Each 44,000.00

( applicable for above 600 ltrs only )

Standby Humidity Systems Each 13,000.00

Magnetic Door Access Security Systems Each 27,500.00

21 CFR part 11 compliant software Each Free of cost

Validation [Mapping] Consists of one Each 26,500.00

cycle for temperature and humidity at

any one set point for 24 hours on empty

and loaded condition.

**SPECIFICATIONS:**

Capacity – inner chamber : Already given

Temperature : 10ºC to 60ºC

Accuracy : ±2º C

Humidity range : 40% to 95%

Accuracy : ± 5% RH

Chamber is made of : Double walled

Inner chamber made of : SS 316 quality

Outer chamber made of : galvanized steel Powder Coated

For GMP Model : SS 304 Quality

Insulation : Glass wool

Circulation : Forced air circulation

Shelves : Shelf runners with perforated

removable shelves

Door for visibility : Made of acrylic

Controller : Micro processor based PID type

Sensor : Imported German for both

temperature and humidity in one

Heating element : Nichromewire with SS fins

Cooling device : Hermetically sealed.Kirloskar

Copeland Heavy.duty Compressor

 (Compressor CFC free model)

Boiler Tank : SS refractory type heater

 Reservoir water tank having float

valves

Safety : Low water cut off indication through

pilot lamp.

Temperature safety : Protected by capillary thermostat

Alarm for low / high RH / Temperature : Provided

Centronix Printer output suitable for

Epson Model Lx-300+ (or) Equivalent : Provided.

(without printer)

Provision for inserting humidity and temperature probe for validation provided.

**VALIDATION:**

Validation using data logger (calibrated) with 8 Nos of Humidity probes shall be undertaken at your site if desired at extra cost.

**INSTALLATION REQUIREMENTS:**

Servo stabilizer of 4 KVA rating is must for the installation of Humidity chamber to be provided by you.

Water tank of 10 liter capacity made of stainless steel with the tap with suitable hose is also must and to be provided by you.

**“INLAB” PLANT GROWTH CHAMBER MICRO PLC BASED TOUCHSCREEN ( HSN CODE : 8419 )**

Double walled construction exterior is made of SS 304 quality/ GI Powder coated and interior is made of stainless steel 316 quality. A flush fitting   insulate door has leak proof gasket. The shelf position of the trays is   adjustable. The rear chamber of the   interior is fitted with a refrigeration evaporator, heater and air circulating fan to create a   positive air flow    throughout the chamber. A hermetically sealed compressor below or above the chamber provides temperature below ambient.  On the rear side of the chamber is housed a boiler with an immersion heater and water level controller for   creating humidity. The control panel is provided at the top with Micro PLC based control system with touch screen display.

**Model :Humitherm Ultra.**

Chamber is provided with 4 nos of 2 feet LED lights with cyclic timer

**Salient features**

Tempearture range 10°C to 60°C, humidity Range 40% to 95% RH

Accurate monitoring of temperature and humidity conditions

Powerful fan motor for forced air circulation for uniformity of conditions inside chamber within permissible limit

SS fin type heaters

Hermetically sealed compressor with CFC free refrigerant

Validation port

Adjustable trays

Auto tuning of controller with battery back up

Low high alarm setting

Data aquisition software complying to 21 CFR part 11 as per US FDA guidelines. Supports multiple chambers.online data/ records display in graphical and tabular format. Auto start up on PC power up.

Centronics interface to record temperature,humidity,date and time and printing.

Print interval adjustable. ( printer not in our scope)

Power failure and resumption recorded with date and time

High temperature safety cut off and alarms for high/low set parameters.

Low water level alarm and power cut off for boiler tank heater

Time delay for compressor starting

Over load cut off relay for compressor

Validation for 8 point with temperature and humidity recording ( optional )

Standby Cooling Refrigeration system with auto switchover .( optional )

Standby Humidity System with auto switchover.( optional )

4 nos temperature and humidity sensor provided for scanning.( optional )

Full view glass / acrylic door is provided inside the chamber to view samples with interior illumination.

**OUTSIDE MADE OF GALVANIZED STEEL POWDER COAT PAINTED AND INSIDE MADE OF SS 316 QUALITY**

**SIZES:**

6 CU FEET

H 820 MM X W 500MM X D 430 MM EACH 2,80,500.00

CAPACITY: 170 LTRS

8 CU FEET

H 870 MM X W 520MM X D500 MM EACH 2,92,000.00

CAPACITY: 226 LTRS

10 CU FEET

H 970 MM x W 580 MM x D 500 MM EACH 3,02,500.00

CAPACITY: 250 LTRS

12 CU FEET

H 1020 MM x W 620 MM x D 530 MM EACH 3,20,000.00

CAPACITY: 325 LTRS

--------------------------------DO----------------------------------

**OUTSIDE ALSO MADE OF SS 304 QUALITY**

6 CU FEET

H 820 MM x W 500 MM x D 430 MM

CAPACITY: 170 LTRS. EACH 3,24,500.00

8 CU FEET

H 870 MM X W 520MM X D500 MM EACH 3,36,000.00

CAPACITY: 226 LTRS

10 CU FEET

H 970 MM x W 580 MM x D 500 MM

CAPACITY: 250 LTRS EACH 3,46,500.00

12 CU FEET

H 1020 MM X W 620MM X D 530 MM

CAPACITY: 325 LTRS EACH 3,58,000.00

**Optional Accessories**

Data Logger (Temp / Humidity ) , 8 channels (4 temp + 4 Humidity ), Each 66,000.00

Supplied complete with sensors

Smart Sensor (Temp &Humidity ) Each 16,500.00

GSM Mobile Alert ( Hardware ) Each 27,500.00

Standby Refrigeration Systems Each 44,000.00

( applicable for above 600 ltrs only )

Standby Humidity Systems Each 13,300.00

Magnetic Door Access Security Systems Each 27,500.00

21 CFR part 11 compliant software Each Free of cost

Validation [Mapping] Consists of one Each 26,500.00

cycle for temperature and humidity at

any one set point for 24 hours on empty

and loaded condition.

**SPECIFICATIONS:**

Capacity – inner chamber: Already given

Temperature: 10°C to 60°C

Accuracy: ±1º C

Uniformity:±1º C

Humidity range: 40% to 95%

Accuracy: ± 2% RH

Uniformity : ± 3% RH

Chamber is made of: Double walled

Inner chamber made of : SS 316 quality

Outer chamber made of:SS 304 quality ( For GMP Model )

Insulation:Glass wool

Circulation: Forced air circulation

Shelves:: Shelf runners with perforated removable shelves

No of Trays : 5

Door for visibility : Made of acrylic / Glass

Controller : PLC Based control system with touch screen display.

Sensor: Humidity Sensor and Temperature sensor provided

Heating element: Nichromewire with SS fins

Cooling device: HermeticallysealedKirloskar Copeland Heavy duty Compressor (Compressor CFC free model)

Boiler TankwithheaterReservoir water tank having float valves

Safety: Low water cut off with buzzer indication with indication of status in the controller.

Temperature safety: Protected by capillary thermostat

Alarm for low / high RH / Temperature: Provided

PC Interface with 21 CFR Software.

**Features of Humitherm Ultra Controller**

Please find attachment.

**INSTALLATION REQUIREMENTS:**

Servo stabilizer of 4 KVA rating is must for the installation of Humidity chamber to be provided by you.

Water tank of 10 liter capacity made of stainless steel with the tap with suitable hose is also must and to be provided by you.

**26. “INLAB” SEED GERMINATOR[HSN CODE:8419]**

Double walled construction exterior is made of sheet steel powder coated and interior is of stainless steel 316 quality. A flush fitting insulate door has leak proof gasket. The shelf position of the trays is adjustable. The rear chamber of the interior is fitted with a refrigeration evaporator, heater and air circulating fan to create a positive air flow throughout the chamber. A hermetically sealed compressor below or above the chamber provides temperature below ambient. On the rear side of the chamber is housed a boiler with an immersion heater and water level controller for creating humidity. The control panel is provided at the top with Micro PLC based temperature + humidity control and recording system with 21 CFR part 11 compliant PC software.

(a). Interior illumination with 3 Nos Florescent tube of 60 cm length placed vertically

along one side of the wall. Separate ON / OFF switch for tubes. Minimum

temperature that can be obtained will be from 10°C to 50°C when all the tubes are

on. **Each 8000.00**

(b). Digital timer 0 To 24 hours for regulating cyclic illumination condition fixed on the

panel.**Each 2800.00**

**Model: Humitherm–Plus**

**Salient features**

**Accurate monitoring of temperature and humidity conditions**

**Powerful fan motor for forced air circulation for uniformity of conditions inside chamber within permissible limit**

**SS fin type heaters**

**Hermetically sealed compressor with CFC free refrigerant**

**Validation port**

**Adjustable trays**

**MP controller with LCD display directly displaying temperature and humidity with temperature and capacitance type sensor**

**Auto tuning of controller with battery back up**

**Low high alarm setting**

**Data aquisition software complying to 21 CFR part 11 as per US FDA guidelines. Supports multiple chambers. online data/ records display in graphical and tabular format. Auto start up on PC power up.**

**Centronics interface to record temperature,humidity,date and time and printing.**

**Print interval adjustable. ( printer not in our scope)**

**Power failure and resumption recorded with date and time**

**High temperature safety cut off and alarms for high/low set parameters.**

**Low water level alarm and power cut off for boiler tank heater**

**Time delay for compressor starting**

**Over load cut off relay for compressor**

**Validation for 8 point with temperature and humidity recording ( optional )**

**Note: Controller is provided with Recorder + PC Software + Printer ( without printer )**

**OUTSIDE MADE OF GALVANIZED STEEL POWDER COAT PAINTED AND INSIDE MADE OF SS 316 QUALITY**

**SIZES:**

###### 6 CU FEET

H 820 MM X W 500MM X D 430 MM  **EACH 2,32,000.00**

CAPACITY: 170 LTR

###### 8 CU FEET

H 870 MM X W 520MM X D500 MM  **EACH 2,43,000.00**

CAPACITY: 226 LTRS

**10 CU FEET**

H 970 MM x W 580 MM x D 500 MM  **EACH 2,54,000.00**

CAPACITY: 250 LTRS

#####

##### 12 CU FEET

H 1020 MM x W 620 MM x D 530 MM**EACH 2,65,000.00**

CAPACITY: 325 LTRS

**19 CUBIC FEET**

**Capacity:540litersEach3,25,500.00**

Internal Dimension:660WX655DX1250H

External Dimension:800WX1095DX1820H

No Of Trays:6

35 CUBIC FEET

**Capacity:1000litersEach 4,63,000.00**

Internal Dimension:800W X 800D X 1580H

External Dimension:960W X 1370D X 2270H

**No. of Trays:6**

--------------------------------DO----------------------------------

OUTSIDE ALSO MADE OF SS 304 QUALITY

###### 6 CU FEET

H 820 MM x W 500 MM x D 430 MM

CAPACITY: 170 LTRS.  **EACH 2,65,000.00**

###### 8 CU FEET

H 870 MM X W 520MM X D500 MM  **EACH 2,76,500.00**

CAPACITY: 226 LTRS

**10 CU FEET**

H 970 MM x W 580 MM x D 500 MM

CAPACITY: 250 LTRS **EACH 2,87,000.00**

##### 12 CU FEET

H 1020 MM X W 620 MM X D 530 MM

 CAPACITY: 325 LTRS **EACH 2,98,500.00**

**Capacity:540liters**

No Of Trays:6**Each4,20,000.00**

Internal Dimension:660WX655DX1250H

External Dimension:800WX1095DX1820H

**Capacity:1000liters**

No Of Trays:6**Each5,25,000.00**

Internal Dimension:800W X 800D X 1580H

External Dimension:960W X 1370D X 2270H

**Optional Accessories**

Data Logger (Temp / Humidity ) , 8 channels (4 temp + 4 Humidity ), Each 66,500.00

Supplied complete with sensors

Smart Sensor (Temp &Humidity ) Each 16,500.00

GSM Mobile Alert ( Hardware ) Each 27,500.00

Standby Refrigeration Systems( Manual change over ) Each 44,000.00

( applicable for above 600 ltrs only )

Magnetic Door Access Security SystemsEach 27,500.00

21 CFR part 11 compliant software Each Free of cost

Validation [Mapping] Consists of one Each 26,500.00

cycle for temperature and humidity at

any one set point for 24 hours on empty

and loaded condition.

**SPECIFICATIONS:**

Capacity – inner chamber : Already given

Temperature : 10ºC to 60ºC

Accuracy : ±2º C

Humidity range : 50% to 90%

Accuracy : ± 3% RH

Chamber is made of : Double walled

Inner chamber made of : SS 316 quality

Outer chamber made of : galvanized steel Powder Coated

Optional : SS 304 Quality

Insulation : Glass wool

Circulation : Forced air circulation

Shelves : Shelf runners with perforated removable shelves

Door for visibility : Made of acrylic

Controller : Micro processor based PID type

Sensor : Provided for both humidity and temperature

Heating element : Nichrome wire with SS fins

Cooling device : Hermetically sealed.KirloskarCopelandHeavy.duty Compressor (Compressor CFC free model)

Boiler Tank : SS refractory type heaterReservoir water tank having float valves

Safety : Low water cut off indication through

pilot lamp.

Temperature safety : Protected by capillary thermostat

Alarm for low / high RH / Temperature : Provided

Provision for inserting humidity and temperature probe for validation provided.

**VALIDATION:**

Validation using data logger (calibrated) with 8 Nos of Humidity probes shall be

Undertaken at your site if desired at extra cost.

**INSTALLATION REQUIREMENTS:**

Servo stabilizer of 4 KVA rating is must for the installation of Humidity chamber to be

provided by you.

Water tank of 10 liter capacity made of stainless steel with the tap with suitable hose is also must and to be provided by you.

1. **“INLAB” seed germinator [HSN CODE:8419]**

Double walled construction exterior is made of sheet steel powder coated and interior is of stainless steel 316 quality. A flush fitting insulate door has leak proof gasket. The shelf position of the trays is adjustable. The rear chamber of the interior is fitted with a refrigeration evaporator, heater and air circulating fan to create a positive air flowthroughout the chamber. A hermetically sealed compressor below the chamberprovides temperature below ambient. The same compartment houses a boiler with an immersion heater and water level controller for creating humidity. The control panel is provided at the top with Micro Controller based PID temperature, humidity controller PPI Make

(a). Interior illumination with 3 Nos Florescent tube of 60 cm length placed vertically

along one side of the wall. Separate ON / OFF switch for tubes. Minimum

temperature that can be obtained will be from 10°C to 50°C when all the tubes are

on. **Each 8000.00**

(b). Digital timer 0 To 24 hours for regulating cyclic illumination condition fixed on the

panel.**Each 2800.00**

Model **Humitherm–C**with the following features.

**CONTROLLER FEATURES:**

**Independent display for temperature and Humidity**

**Input version with temperature and Rh transmitter**

**Independent self tune PID control loopfor temperature and humidity**

**Heater and humidifier control out put**

**Optional relay output for alarm/compressor control with time delay**

**Optional serial communication port**

**Size 48(H) x 48 (W) x 110 (D) mm**

**OUTSIDE MADE OF GALVANIZED STEEL POWDER COAT PAINTED AND INSIDE MADE OF SS 316**

QUALITY

**SIZES:**

###### 6 CU FEET

H 820 MM X W 500MM X D 430 MM  **EACH 1,76,500.00**

CAPACITY: 170 LTRS

###### 8 CU FEET

H 870 MM X W 520MM X D500 MM  **EACH 1,92,500.00**

CAPACITY: 226 LTRS

**10 CU FEET**

H 970 MM x W 580 MM x D 500 MM  **EACH 2,04,000.00**

CAPACITY: 250 LTRS

##### 12 CU FEET

H 1020 MM x W 620 MM x D 530 MM **EACH 2,18,500.00**

CAPACITY: 325 LTRS

--------------------------------DO----------------------------------

OUTSIDE ALSO MADE OF SS 304 QUALITY

###### 6 CU FEET

H 820 MM x W 500 MM x D 430 MM

CAPACITY: 170 LTRS.  **EACH 2,14,500.00**

###### 8 CU FEET

H 870 MM X W 520MM X D500 MM  **EACH 2,32,000.00**

CAPACITY: 226 LTRS

**10 CU FEET**

H 970 MM x W 580 MM x D 500 MM

CAPACITY: 250 LTRS **EACH 2,43,000.00**

##### 12 CU FEET

H 1020 MM X W 620 MM X D 530 MM

CAPACITY: 325 LTRS  **EACH 2, 59,500.00**

**SPECIFICATIONS:**

1. Capacity – inner chamber : Already given
2. Temperature : 10ºC to 60ºC
3. Accuracy : ±2º C
4. Humidity range : 50% to 90%
5. Accuracy : ± 3% RH
6. Chamber is made of : Double walled
7. Inner chamber made of : SS 316 quality
8. Outer chamber made of : galvanized steel Powder Coated
9. Optional : SS 304 Quality
10. Insulation : Glass wool
11. Circulation : Forced air circulation
12. Shelves : Shelf runners with perforated

removable shelves

1. Door for visibility : Made of acrylic
2. Controller : Micro processor based PID type
3. Sensor : Provided for both humidity and temperature
4. Heating element : Nichrome wire with SS fins
5. Cooling device : Hermetically sealed.Kirloskar

 Copeland Heavy.duty Compressor

 (Compressor CFC free model)

1. Boiler Tank : SS refractory type heater

 Reservoir water tank having float valves

1. Safety : Low water cut off indication through pilot lamp.
2. Temperature safety : Protected by capillary thermostat

Provision for inserting humidity and temperature probe for validation provided.

**VALIDATION:**

Validation using data logger (calibrated) with 8 Nos of Humidity probes shall be

undertaken at your site if desired at extra cost.

**INSTALLATION REQUIREMENTS:**

Servo stabilizer of 4 KVA rating is must for the installation of Humidity chamber to be

provided by you.

Water tank of 10 liter capacity made of stainless steel with the tap with suitable hose is also must and to be provided by you.

**28. “INLAB” TABLET DISINTEGRATION TEST MACHINE WITHOUT BEAKER(HSN CODE :90278090)**

**Tablet disintegration test machine as per IP/BP/USP**

**Standard.**

**Unit is made of Mild steel powder coat finish**

**Best quality motors with basket assembly and guided**

**disc**

Single Basket IP/BP/USP  **EACH 20,000.00**

Double Basket **Each 24,000.00**

**29. “INLAB” TABLET HARDNESS TESTER (HSN CODE :90248099)**

Cap: 0-20kg

Type :Monsonto  **EACH 5,500.00**

**30. ”INLAB”TRAY DRIER (HSN Code : 8514)**

The drier is double walled with insulation and is fitted with best quality heaters. A suitable blower driven by motor circulates the hot air. The temperature is controlled by a microprocessor based digital temperature controller cum indicator. The unit is supplied complete with panel box having indication lamps, temperature indicator, starter, contactor etc. The unit is supplied without trolley and with trays. SS Interior and Ms Exterior nicely painted.

 A) 12TRAYS

 1/4 HP MOTOR, 3 PHASE

 3 KW HEATING LOAD

 TEMPERATURE 100° C  **EACH POR**

 B) No of Trays : 24

Motor : ½ HP

Heating Load : 6KW

Temperature Range : 100ºC **EACH POR**

 C) 48TRAYS

 1 HP MOTOR 3 PHASE 1440 RPM

 9 KW HEATING LOAD

 TEMPERATURE 100 DEG.C  **EACH POR**

 **ADTIONAL TROLLY AND TRAYS AT COST EXTRA**

 D) EXTRA COST FOR ALUMINIUM TRAYS 20SWG

 SIZE: 32X16 1 1/4"  **EACH POR**

 E) DIGITAL TEMPERATURE CONTROLLER

 CUM INDICATOR  **EACH POR**

 F) EXTRA PRICE FOR TROLLEY MILD STEEL  **EACH POR**

**31.“INLAB” ULTRA CRYOSTAT (CIRCULATOR ) (HSN CODE : 8419 )**

The inner tank shall be made out of stainless steel and is insulated with thermorix sheet. This is mounted on a sturdy iron frame. The refrigeration system is consisting of a compressor,condenser and a fan which are fixed in the bottom of the frame. The evaporatorCoil is evenly placed inside the S.S. Tank. R 134A gas is charged to the refrigeration system which brings down the temperature. The temperature is controlled by a digital Controller with 3 1\2 digit led with resolution of 0.5ºC. The complete unit is covered with mild steel sheet and powder coated in a pleasing colour. Four wheels are provided for easy movement.

**Special Type Magnetic Pumping unit with an output of 10ltr/min at 2 meter head to enable water circulation is provided with the unit.**

**Specifications:**

Tank capacity : 15 litres

Working space : 300H x 250L x 200Bmm

Mains : 220/230 volts 50hzac.

Temp. Range : 5˚C to Ambient **EACH 80,500.00**

Accuracy : ± 1˚C

--------do------Temp. Range - 10 to Ambient Temp  **EACH 91,000.00**

--------do------Temp. Range - 20 to Ambient Temp  **EACH 1,10,000.00**

--------do------Temp. Range - 30 to Ambient Temp  **EACH 1,20 ,000.00**

--------do------Temp. Range - 40 to Ambient Temp  **EACH 2,15,000.00**

**Optional:**

Voltage stabilizer 3 KVA is a must for the above unit to be provided by you.

32. “**INLAB” UV-CABINET(HSN CODE : 9027)EACH 11,000.00**

Chrome view cabinet with long and short Wave andwhitelight source and with Electronic chokes. The

unit is powdercoat painted with viewing assembly and front door with magnetic locking provision.

**Size: L 16” x D 15” x H 11”**

 33. **“INLAB” VACUUM OVEN(HSN CODE : 85141000)**

Stainless steel interior and mild steel exterior. Door is casted in aluminium and provided with a glass window. Microprocessor based digital temperature controller cum indicator is provided.

Vacuum control valve with vacuum gauge and two stainless steel trays are also provided.

Working Chamber: 27.5 cm Dia X 37.5 cm Deep

Temperature: +5ºC above ambient to 100ºC

Accuracy: ±3º C

Volume: 25 LtrsApprox  **EACH 44,000.00**

 ---DO--- Temperature: +5ºC above ambient to 150ºC **EACH 47,500.00**

 ---DO--- Temperature: +5ºC above ambient to 200ºC **EACH 50,500.00**

**Optional**

Digital Vacuum Gauge instead of Analog Gauge **EACH 10,000.00**

(Note: Calibration certificate for analog and digital vacuum gauge if required will cost extra.)

Direct Printout using recorder Each 9,500.00

Software if required Each 3,200.00

**HIGH SPEED OIL FREE VACUUM PUMP for above vacuum oven**

**( The Maximum vacuum attainable is 600 mm of Hg )( HSN CODE : 8414 )**

**Model:**HSV – 2AMOUNT -17,500.00/-

**Vacuum: 50**Ltrs / Min

**Type:**Diaphragm

**Motor:** 1/3 H.P

**“INLAB” VACUUM OVEN**– **GMP MODEL**

Stainless steel interior and exterior. Door is also made of Stainless steel with glass window. Microprocessor based digital temperature controller cum indicator is provided.

Vacuum control valve with vacuum gauge and two stainless steel trays are also provided.

Working Chamber : 27.5 cm Dia X 37.5 cm Deep

Temperature : +5ºC above ambient to 100ºC EACH - 64,000.00

Accuracy: ±3º C

---DO--- Temperature : +5ºC above ambient to 150ºC EACH -67,000.00

---DO--- Temperature : +5ºC above ambient to 200ºC EACH 72,500.00

**Optional**

Digital Vacuum Gauge instead of Analog Gauge-EACH 10,000.00

(Note: Calibration certificate for analog and digital vacuum gauge if required will cost extra.)

**HIGH SPEED OIL FREE VACUUM PUMP for above vacuum oven**

**( The Maximum vacuum attainable is 600 mm of Hg )( HSN CODE : 8414 )**

**Model:**HSV – 2AMOUNT -17,500.00/-

**Vacuum: 50**Ltrs / Min

**Type:**Diaphragm

**Motor:** 1/3 H.P

**“INLAB” RECTANGULAR VACUUM OVEN ( HSN CODE : 8514 )**

Inner is made of SS 304 quality and Outer is made of MS powder coated. A toughened glass door is provided in the front. Digital temperature controller indicates and controls the temperature. A vacuum gauge, vacuum release valve are provided at the top.

**SPECIFICATIONS:**

Temperature Range : 50°C to 150°C

Resolution : 0.1 °C

Temperature Accuracy : ± 3°C

Capacity : 35 Ltrs

Inner dimension : 300 L x 300 B x 400 H mm**Each 1,10,500.00/-**

Shelves : 1

Rated Supply : 230V, 50Hz, 15A

**Optional**

Digital Vacuum Gauge instead of Analog Gauge **Each 10,000.00/-**

( Note : Calibration certificate for analog and digital vacuum gauge if required will cost extra. )

**HIGH SPEED OIL FREE VACUUM PUMP for above vacuum oven**

( The Maximum vacuum attainable is 600 mm of Hg )**( HSN CODE : 8414 )**

**Model : HSV – 2Each 17,500.00/-**

Vacuum : 50Ltrs / Min

Type :Diaphragm

Motor : 1/3 H.P

**34.HIGH SPEED OIL FREE VACUUM PUMP ( HSN CODE : 8414 )**

**Model :**HSV – 2

Vacuum : 50Ltrs / Min

Type :Diaphragm

Motor : 1/3 H.P **Each 17,500.00/-**

**HIGH SPEED OIL FREE VACUUM PUMP ( HSN CODE : 8414 )**

**Model : HSV – 1**

Vacuum : 50Ltrs / Min

Type :Diaphragm

Motor : 1/3 H.P **Each 12,500.00/-**

**“INLAB” VACUUM PUMP (HSN CODE: 8414) ( PRABIVAC PUMPS )**

**Model : S x .200 DRs. 43,000.00/- ( Less 20% Discount For Inlab )**

****

Hi Vacuum Pump Capacity : 200 Lpm Double Stage

Oil Charge: 2.5 Ltrs

Motor Rating : 0.5 HP Single Phase

Pump Speed : 550 RPM ( 1440 RPM )

Including Belt : A 30 x 1 No

Motor Pulley, Base, Belt Guard, Oil Trap & Vacuum Gauge : Full Set

**35.”INLAB” WATER BATH - RECTANGULAR (SINGLE WALL ELECTRIC)(HSN CODE : 84191920)**

Complete unit including bath and concentric rings are made of stainless steel with arrangement for 6/12 holes.

**SIZES:**

300 X 250 X 100 (MM) (6HOLES OF 75MM DIA)  **EACH 5,500.00**

**--- do ----- with thermostatic control Each 8,500.00**

 400 X 300 X 100 (MM) (12 HOLES OF 75MM DIA) **EACH 7,700.00**

------ do ------------- with thermostatic control **Each 10,800.00**

**36. "INLAB” WATER BATH – THERMOSTATIC CONTROLLED ( DOUBLE WALLED )**

**( HSN CODE : 8419 )**

Temperature range 5°C above ambient to 100ºC.Electrically heated model thermostatic control with an accuracy of ±2ºC. Double walled inside stainless steel and outside mild steel powder coat painted. Top of the bath is provided with a cover made of Stainless steel 304 grade works on 220 volts AC.

 Size: 300 x 250 x 100 mm (6holes of 75mm Dia)

 Rating: 1 kw, Capacity: 6 Ltrs  **Each 14,000.00**

 Size: 355 x 405 x 100 mm (12holes of 75mm Dia)

 Rating: 1.5 kw, Capacity: 13 Ltrs  **Each 17,000.00**

**"INLAB” WATER BATH –DIGITAL TEMPERATURE CONTROLLER( DOUBLE WALLED )**

**( HSN CODE : 8419 )**

Temperature range 5°C above ambient to 100ºC.Electrically heated model with digital temperature controller cum indicator,Stirrer,temperature probe in a panel box.Temperatureaccuracy±2ºC. Double walled inside stainless steel and outside mild steel powder coat painted. Top of the bath is provided with a cover made of Stainless steel 304 gradewith six / twelve sets of concentric rings of 75 mm diaworks on 220 volts AC.

 Size: 300 x 250 x 100 mm (6holes of 75mm Dia)

 Rating: 1 kw, Capacity: 6 Ltrs  **Each 24,000.00**

 Size: 355 x 405 x 100 mm (12holes of 75mm Dia)

 Rating: 1.5 kw, Capacity: 13 Ltrs **Each 26,500.00**

**"INLAB” WATER BATH – THERMOSTATIC CONTROLLED ( DOUBLE WALLED )Gmp model**

**( HSN CODE : 8419 )**

Temperature range from ambient to 100ºC.Electrically heated thermostat control with an accuracy of ±2ºC. Double walled inside, outside and top cover all are made of S.S 304 quality works on 220 volts AC

Size: 300 x 250 x 100 mm (6holes of 75mm Dia)

Rating: 1 kw, Capacity: 6 Ltrs**Each17,000.00**

Size: 355 x 405 x 100 mm (12holes of 75mm Dia)

Rating: 1.5 kw, Capacity: 13 Ltrs **Each20,000.00**

**"INLAB” WATER BATH – DIGITAL TEMPERATURE CONTROLLER ( DOUBLE WALLED )Gmp model**

**( HSN CODE : 8419 )**

Temperature range 5°from ambient to 100ºC.Electrically heated with digital temperature cum indicator with an accuracy of ±2ºC. A control panel is provided with stirrer and temperature probe. Double walled inside, outside and top cover all are made of S.S 304 quality works on 220 volts AC

Size: 300 x 250 x 100 mm (6holes of 75mm Dia)

Rating: 1 kw, Capacity: 6 Ltrs**Each 26,500.00**

Size: 355 x 405 x 100 mm (12holes of 75mm Dia)

Rating: 1.5 kw, Capacity: 13 Ltrs**Each29,500.00**

 **SALIENT FEATURES OF INLAB Water bath**

Inner water tank is made of original 304 SS sheet and argon arc welded and hence leak proof for a minimum period of 5 years unlike other tanks which are of light gauge and lead soldered. After a few operations leak may occur spoiling glass wool and thermostat.

Concentric rings are of genuine 304 SS quality and can be checked to confirm.

**“INLAB“ WATER BATH CYLINDRICAL MODEL ( DOUBLE WALLED ) ( HSN CODE : 8419 )**

The cylindrical model double walled water bath outer made of mild steel powder coat filling and inner made of stainless steel 304 grade argon arc welded nicely polished. Temperature is controlled by thermostatic controlled with rings. Temperature range ambient 5ºC to 100ºC works on 220v AC.

**Size:** 175 x 150 mm**Each 16,000.00**

5 liters capacity

37. **”INLAB”WATER BATH - SEROLOGICAL (HSN CODE : 8419 )**

Temperature range from +50 c above Ambient to 80 ºc. Thermostatic control With an

accuracy of ±1 ºc. Double walled inside stainless steel and Outside mild steel with powder coat finish,

Without stirring attachment thermometer and trays.

**SIZES:**

300 x 250 x 175 mm (L x B x H) **EACH 11,000.00**

Cap: 13 Ltrs

330 X 300 X 175 MM **EACH 12,000.00**

Cap: 17 Ltrs

455 X 300 X 175 MM **EACH 14,000.00**

Cap: 24 Ltrs

605 X 300 X 175 MM  **EACH 18,000.00**

Cap: 32 Ltrs

**OPTIONAL:**

1) DIGITAL CONTROLLER WITH STIRRER **EACH 13,700.00**

2) DIGITAL CONTROLLER WITHOUT STIRRER **Each 9,500.00**

**MBRT WATER BATH[HSN CODE:8419](Methylene Blue dye Reduction test)**

Temperature range from 5° above ambient to 80°C .Inner is made of SS 304 quality argon arc welded and the outer is made of MS Sheet and powder coated. A control panel is fixed at the top of the water bath comprising Micro-processor based digital temperature controller cum indicator, Temperature probe, main switch, pilot lamp and SSR.

A stirring motor is placed on the top behind the control panel to maintain uniformity of temperature inside the water bath.

A suitable Nipple Type heater is provided for heating.

A drain valve is also provided to drain the water.

A suitable tray is provided over the heater to accommodate samples.

Temperature accuracy is ±1°C.

A Flat ss cover is provided at the top for closing the water bath.

**SIZES:**

300 X 250 X 175 MM (LXBXH) Cap:13 litresEach25,500.00

330 X 300 X 175 MM (LX B XH) Cap:17 litres Each 26,500.00

455 X 300 X 175 MM (LX BXH) Cap:24 LitresEach 28,500.00

605 X 300 X 175 MM (LXBXH) Cap: 32 LtrsEach 32,500.00

38. “**INLAB” WATER BATH - DIGITAL TEMPERATURE CONTROLLED ( HSN CODE : 8419 )**

This is a rectangular double walled water bath. The inner tank both is made of SS and the outer is

made of mild steel powder coat painted. Stirrer of 1/35 hp motor keeps the temperature uniform. The

temperature is controlledby digital temperature controller cum indicator.

 An S.S tray is provided at the bottom for holding the samples.

 **Size: 400mm L x 300mmB x 100mm H**

 Temp. Range: 5ºC Above Ambient - 100ºC

 Accuracy: ± 1ºC **EACH 24,000.00**

 Capacity: 12 Ltrs

 **Size: 330mm L x 300mmB x 175mm H**

 Temp. Range: 5ºC Above Ambient - 100ºC

 Accuracy: ± 1ºC **EACH 32,000.00**

 Capacity: 17 Ltrs

1. **“INLAB”CONSTANT TEMPERATURE WATER BATH( HSN CODE : 8419 )**

Inner chamber is made of Stainless Steel 304 quality argon arc welded, outer is made of MS powder

coated, with a toughened glass(optional) in the front for easy viewing. A stirrer keeps the

temperature uniform inside. Heaters are placed at the bottom. Control panel comprises micro

processor based digital temperature controller cum indicator, on / off switch, pilot lamp etc.

 Temperature Range: Above Ambient to 100ºC

 Accuracy: ± .5ºC

 **Sizes:**

 220 L X 220 B X 260 H Cap:12 ltrs  **EACH 40,500.00**

 300 L X 360 B X 300 H Cap: 28 Ltrs **EACH 43,500.00**

370 L X 260 BX 350 H Cap:40Ltrs  **EACH 52,500.00**

1. **“INLAB” WATER BATH INCUBATOR SHAKER**

**( METABOLIC SHAKING INCUBATOR)( HSN CODE : 8419 )**

Temperature range from 5°C above ambient to 100°C.

Digital temperature controller with timerwith an accuracy of ±0.5°C is provided.

Double walled inside made of Stainless Steel 304 qty and outside mild steel sheet powder coat painted. Oscillating tray is riding on ball rollers. Shaking speed ranges from 25 to 140 R.P.M.Built in water drain and digital rpm indicator are also provided. Works on 220/230 volts A.C.

**SHAKING TRAY SIZE: INSIDE (STAINLESS STELL 304 QTY):**

 ISB-1 275 X 275 X 175 MM **EACH 45,000.00**

**Capacity** :**12litres**

ISB-2 405 X 300 X 175 MM **EACH 57,000.00**

**Capacity: 18 litres**

**SHAKING RACKS MADE OF STAINLESS STEEL FOR TYPE ISB 1**

 TO HOLD 16 NOS. 25 ML CONICAL FLASK **EACH 3,000.00**

 TO HOLD 12 NOS. 50 ML CONICAL FLASK **EACH 3,000.00**

 TO HOLD 9 NOS. 100 ML CONICAL FLASK **EACH 3,000-00**

 TO HOLD 5 NOS. 250 ML CONICAL FLASK  **EACH 3,000-00**

 TO HOLD 4 NOS. 500 ML CONICAL FLASK  **EACH 3,000-00**

 TO HOLD 2 NOS.1000 ML CONICAL FLASK  **EACH 3,000-00**

 TO HOLD 25 NOS. 25 MM DIA TEST TUBE  **EACH 3,000-00**

**SHAKING RACKS MADE OF STAINLESS STEEL FOR TYPE ISB-2**

 TO HOLD 20 NOS. 25 ML CONICAL FLASK  **EACH 4,000-00**

 TO HOLD 16 NOS. 50 ML CONICAL FLASK  **EACH 4,000-00**

 TO HOLD 12 NOS. 100 ML CONICAL FLASK  **EACH 4,000-00**

 TO HOLD 9 NOS. 250 ML CONICAL FLASK  **EACH 3,000-00**

 TO HOLD 6 NOS. 500 ML CONICAL FLASK  **EACH 3,000-00**

 TO HOLD 4 NOS.1000 ML CONICAL FLASK  **EACH 3,000-00**

 TO HOLD 35 NOS. 25 MM DIA TEST TUBE  **EACH 4,000-00**

**42. “INLAB” LEAK TEST APPARATUS (HSN Code :9027 )**

Leak test Apparatus with four bright Red LED Display SS Body 15-9999 seconds timer with built in

vacuum pump polycarbonate desiccators, connecting tubes and operating manual

**Desiccator Size6 “ - 34,000.00**

**Desiccator Size 8” - 40,000.00**

**Desiccator Size 12” - 48,500.00**

**Leak test Apparatus with µp based 20 x 4 line alphanumeric LCD with Provision for attaching a**

**DOT Matrix Printer centronics / parallel interface 15-999 seconds timer with VP, Desiccator ,**

**Connecting tubes and manual.**

**Desiccator Size : 6” - 77,000.00**

**Desiccator Size : 8” - 83,000.00**

**Desiccator Size : 12” - 86,000.00**

**43. DISPENSING STATION:**

This combat dangers of air borne dust in powder dispensing and sub division application. This equipment ensures operator protection while eliminating the problems of cross contamination.

The unit is made of SS 304 quality with mat finish.

This is provided with 10 micron pre filters with 95% efficiency. Final stage is through hepa of heap filter of 0.3 micron with 95% efficiency. Magnehelic gauge 1 No is provided in the system. Suction grill is made of MS powder coating. Working table is made of SS 304 with SS 304 self support stand.

**Dimensions:-**

**1200Lx 900 D x 1800 H (mm) Each POR**

**1200L x 1200 D x 1800 H (mm) Each POR**

**44. SAMPLING STATION:**

This combat dangers of air borne dust in powder dispensing and sub division application. This equipment ensures operator protection while eliminating the problems of cross contamination. The unit is made of SS 304 quality with mat finish.

This is provided with 1 0 micron pre filters with 95% efficiency. Final stage is through hepa of hepafilter of 0.3 micron with 95% efficiency.

Magnehelic gauge 1 No is provided in the system.

Suction grill is made of MS powder coating.

Working table is made of SS 304 with SS 304 self support stand.

**Dimensions:**

**900 L x 600D x 1800 H Each POR**

**45. POWDER SAMPLER ( HSN CODE : 7308 )**

Homogenous solid sampler manufactured out of SS 316 quality. Capable of drawing homogenous

sample of powder from raw material container.

No of Compartment – 3

**Length 30 CM( 1 foot approx.)** EACH 5,300.00

Length 65 cm (2 ft**approx.**) Each 6,000.00

Length 100 CM (3 ft**approx.**) Each 7,000.00

**Length 120 cm (4 ftapprox.) Each 7700.00**

46. **Liquid Sampler ( HSN CODE : 7308 )**

Made Of Ss 316 Quality With

30mm Dia X 100mm Cup Attached To SS Rod

400 Mm Height EACH 3,500.00

Do----- S.S Rod 1000mm Height EACH 4,700.00

**“INLAB” CROSS OVER BENCH( HSN CODE : 9403 )**

**Sizes:**

**L – 800mm   B-400mm  H-600mm - 20,000.00**

**L – 900mm   B-400mm  H-600mm - 22,000.00**

**L – 1100mm B-400mm  H-600mm - 25,000.00**

47. **“INLAB” BULK DENSITY APPARATUS(TAP DENSITY)**

Each 45,000.00

Bulk density apparatus micro controllerbased with digital display

Provided with 2 nos measuring

cylinder ( 50 ml and 100 ml )

drop height : 25 mm

keyboard : 6 soft touch memberance keys

Display : digital

Maximum count : 9999

**48.** Cost of replacement of compressor model KCE 419 HAG Each 17,700.00

including replacement of drier, vacuuming nitrogen purging

and gas charging and labour charges

**49. Cost of replacement of compressor model Each 20,000.00**

 **KCE 444 Hag including replacement of**

**Drier , vacuuming nitrogen purging and**

 **Gas charging and labour charges ….**

**50.“ INLAB “ Heating Mantle( HSN CODE : 8419 )**

**Aluminum housing fitted with knitted glass fabric heating surface suitable for capacities of Maximum temperature of 300°C controlled by energy regulator**

 **Spare element**

**Capacity : 50 ml watts :60 Each 1,900.00 800.00**

**Capacity : 100 ml watts :60 Each 2,000.00 800.00**

**Capacity :250 ml Watts : 150 Each 2,100.00 900.00**

**Capacity:500 ml watts:200 Each 2,200.00 1000.00**

**Capacity:1000 ml watts:300 Each 2,500.00 1100.00**

**Capacity:2000 ml watts:500 Each 2,700.00 1,300.00**

**Capacity :3000 ml watts :500 Each 3,000.00 1,400.00**

**Capacity : 5000 ml watts :1000 Each 5,000.00 2,000.00**

**Capacity : 10000 ml watts : 1000 Each 5,800.00 3,000.00**

**Capacity :20000 ml watts : 1500 Each 8,200.00 4,000.00**

**“ INLAB “ SOXHLET EXTRACTION MANTLE**

**( HSN CODE : 8419 )**

Soxhlet extraction mantle heater with 6 test 6 regulator supporting rod but without clamp, Boss head and Rubber tube

**Capacity - 250 ml Each 9,900.00**

**Rating - 900 Watts**

**-------- do ---------**

**Capacity - 500 ml Each 10,800.00**

**Rating - 1200Watts**

**--------- do ---------**

**Capacity - 1000 ml Each 13,500.00**

**Rating - 1800 Watts**

**Accessories for the above**

* 3 Finger jaw type clamp **Each 230.00**
* Bass head for the above **Each 95.00**
* Rubber tube 7 mm Dia for the above **(Per coil of 10 Meters)550.00**

**51.Kinematic viscosity bath**

The viscometer bath is made of double walled construction.

The inner wall is made of ss 304 quality argon arc welded and outer is made of MS powder coated.

Heater is placed at the bottom.

A drain valve is also provided.

Control panel is placed at the top comprising main switch,digital temperature

controller cum indicator.

A stirrer is fixed at the top behind the control panel to keep the temperatureuniform inside the bath.

A lid is provided at the top with openings of 50mm dia to toaccomodate

bakelite holders for suspending the u tube viscometer.

Toughened glasses are fixed on both front and back side for easy viewing.

Temperature range is 5deg above ambient to 100 degc.

Accuracy plus or minus 1 degc.

Size 300mm height x 175mm depth x 200mm length

(to hold 2nos viscometers) Each 33,000.00

       .300mm height x 225mm depth x 300mm length

(to hold 4 nos viscometers) Each 37,000.0

        300mm height  x 300mm depthx 300mm length

 (to fix 6 nosvoscometers)  Each 40,000.00

Viscometer Holder Each 800.00

Lighting assembly Each 1,800.00

 **“INLAB” B.O.D. INCUBATOR GMP MODEL:**

 Temperature range 5ºC - 60ºC .Double wall inside and outside made of stainless steel 304 quality and two air circulating fans. PLC Control System with Touch Screen display with Printing facility

 Scanner 4 point temperature complete with sensors and printer interface and date storage facility gives an accuracy of ±0.5ºC. Acrylic glass door is provided inside .

(Voltage Stabilizer with time delay to be provided by customer.)

SIZE:

35CU.FT

H1500mmX W900mmX D750

Specifications:

GMP Model : Inside & Outside S. S. 304

Temp Range :5°C to 60°C

Control Accuracy :+ 0.2°C

Temp Unifermity :+ 0.2°C

 Complete With :PLC Control System with Touch Screen display with Printing facility

 Scanner 4 point temperature complete with sensors and printer interface and date storage facility

**Stand by refrigeration System Total Trays - 5nos**

 **Material Construction: Inside & Outside for stainless steel**

**Insulation : 3” Thick PUF INSULATION**

 **Air Circulation : Motor and Blower arrangement to have uniformity of condition under chamber loaded condition.**

 **Refrigeration system : Compressor with CFC free R134 A/R404 (Ecofriendly refrigerant)**

 **Stand by refrigeration system : Completely ready for use system in case the regular system fails.**

**Control System : PLC control system with touch screen display colored screen \_7” human machine interface.**

 **Menu: Provision to do system setting Temp control, system reset, Graph view user view, SMS Selection, Off line print**

 **Auto change over cooling system :Auto change over to stand by cooling system in case of failure of regular cooling system or vice versa.**

 **Calendar program cooling system: Calendar program for cooling system to operate 3 days regular system& 4 days stand by system this helps to keep both the cooling system healthy**

**Auto Change over main sensor: Incase if main sensor opens, provision to change over to stand by sensor**

 **Auto start : In case of power failure (main as well as UPS). Once power resumes chamber starts automatically.**

 **User levels/Rights & password production : Three level operation, Admin, Master & General with fixed access rights Access control according to authority level and separate password for individual user.**

**Connectivity : Provision for mobile alerts system, door access system print facility, data transfer facility with Ethernet & LAN Connectivity**

**Data Storage Facility : Storage facility in the HMI to store 1440 readings, Data logger readings, events, audit trail, door access & SMS details.**

 **Software compatibility ; 21CFR part 11 ready software.**

**Lighting : interior Illumination for working area.**

**HYDROTHERMAL AUTOCLAVE(HSN CODE:8419)**

Both body and lid are made of heavy gauge stainless steel with thickness of 5mm and can be locked by ss nut & bolts.

Teflon rubber gasket is provided on the top side of the flange

Teflon lining is provided inside

**Capacity: 50 mL**