

**TURN KEY PROJECTS  
ON  
TISSUE CULTURE LABORATORY / PHOTO  
AUTOTROPIC GROWTH CHAMBER WITH  
ALL EQUIPMENTS AND ACCESSORIES**

**“SANCO Make”**

**ISO 13485:2016, 9001:2015 and CE Certified.**

For Hitech Associates

*Raveesh*  
Authorised Signatory





For Hitech Associates

*Rajesh*  
Authorised Signatory

### Sterile Zone

**Growth Room**

**Inoculation Room**

**Media Storage Room**

**Wet Lab for Media preparation**

**Ante chambers as per requirement**

### Non-Sterile Zone

**Autoclave Room**

**Media Preparation Room and Lab**

**Washing Room**

**Dry Lab**

**Storage Room**

**Office**

**Toilet**

**In between two zones one Changing Room with HEPA filter lab coat cabinet.**

#### **Construction :**

The infrastructure facility (may or may not be undertaken by us, as per customer requirements) is specially designed to all the chambers under one canopy with common entry provision 1 set to enter within & at different chamber.

PUF panels polyurethane high density insulation injecting and foaming in place between outer and inner metal skins. (Puff Density  $40 \pm 2$  Kg/cum). Prefabricated (Easy to install) panel system with Cam Lock tongue and Groove jointing will be duly sealed to prevent leakage. Double walled cabinet structure with Dirt repellent Powder Coated GI 0.5mm thick outer and Interior surface 60 mm polyurethane ( Puff ) insulation

False ceiling with puff panel of 60mm thick with two sides of PPGI.

All the partition walls & Ceiling insulation will be done with puff panel of 50-60mm thick with two sides of PPGI where wall height will be up to 8' to 9' as per requirement.

Doors: Swing Type (As per requirement)

1.92 m tall & 1.05/1.2m wide Swing Pre painted Galvanized Steel (PPGL) Flash & Insulated Door with 50mm thickness , 2.5mm thick AI6063 anodized wall frame with 2.0mm thick GI Reinforcement , Door Handle should be with SS304 D Type & mortice lock with handle lever , Double insulated Glass unit view panel with suitable size complete with Gasket & ball bearing hinges.

**Electrical Wiring:** Electrical Device In all the Rooms with respect to the project requirement will be done with high quality ISI approved fittings with copper cable and rigid Stds of safety with proper M.C.B.

#### **Air Conditioner:**

Heavy Duty 2 to 5 Ton refrigeration, as per requirement based on space available.

**Air curtain** At least 4 Ft wide with auto on/off system for time door closing & opening. Heavy duty, cabinets of Air curtain are made of cold Rolled Mild Steel Sheets. The blowers are made of high-quality aluminium Sheets/PP material with  $\frac{1}{2}$  HP motor & double blower system, powder coated finish, Limit Switch for the automatic operation with auto main ON / OFF limit switch operation at the time of door opening/ Closing.

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**Positive Air Pressure Class 1000** for transfer rooms and class 10000 for growth rooms and media storage room including passage

**LIGHT ARRANGEMENT:**

General Light arrangement minimum 04 No. in all chamber for Illumination purpose only.

**TISSUE CULTURE CASTOR RACK:**

Size of Racks: Height of rack 152 cm (7'0"). Width 127cm (4'.2") (Approx)  
Shelve dimension: 122 × 52.2 cm (50" × 21 ") Shelf to shelf distance: 35cm (16")  
Shelf Color: Square M.S. pipe 32x32mm/Aluminum pipe white shade powder Coating finish with anti- corrosive and humidity resistant.  
Shelf Material: 3mm Hylem sheet. Shelves: illuminated shelves in one rack are: 05 nos. Total no. of shelves (including top) in one rack: 06 nos.  
Fluorescent Tube lights: Four 20W LED tube lights (Philips/ similar make) in each shelf of each rack, one is for operating two tubes.  
Total no. of tube lights in one rack: 20 nos.  
One main switch for each castor rack.  
With separate switch is provided for every LED tube. One fuse for one rack.  
Four castor wheels in a rack for easy movability.  
Side holder rods, on each shelf prevent the bottles etc. from falling from the three sides of a shelf, i.e. On the left, back & right.

**PHOTOPERIODIC TIMER (PLC based programmable):**

Specification:

4" HMI with color display

Powered output can drive 120 tube lights of 40 watt, Auto –Manual Button.

With min 100 Program setting 50 ON and 50 OFF setting

Auto power back up of 60 Hrs.

Internal safety switch inbuilt, Accuracy ±1 sec/day

Input 200 V to 240 VA.C, Phase- Single, 50 Hz

Ambient 5°C to 50°C, RH up to 95%

**Microclimate Temp. Controller with PT- 100 sensor-**

Microprocessor based Controller, 4-digit LED display for displaying measured values and another 4-digit LED display for displaying settings, soft touch operation with Pt-100 sensor, Display resolution 0.1 °C, Accuracy ± 0.1°C. Automatic hysteresis control. Wide selectable temperature ranges from 0 °C to 100 °C, 4.4 KVA load heating & cooling along with the tissue Culture racks –12 Nos. each can be directly connected to the power output, Input- 200-240 VAC, 50 Hz. Single phase operated, CE certified

**Equipment Pass Box:**

MOC: M.S. Powder Coated 1.2 mm thickness Coving: Bottom & Top Side.

Door Interlocking: Electrically Operated System solenoid locking Coil Operated / Magnetic Sensor to operate the coil, timer controlled. W 745 x D 700 x H 745

Dimensions of Work Area: - 630 x 600 x 580 Door & Side Wall: Double Skinned door with view panels & handles. Fluorescent Tube light:- 18 watt x 01,

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**Air exchange Unit :**

with high pressure fan & HEPA Filter; Imported glass fibre (fire retardant) media heap filter that eliminates 99.97% of all particles down to 0.3 microns and above pre filter MS powder coated cabinet with Timer arrangement .

**Manual & Digital Thermometer as per requirement****Microclimate Temp. Controller with PT- 100**

or equivalent Sensor Control panel: Specification: Microclimate Temp. Controller with PT- 100 sensor. Microprocessor based Controller; 4-digit LED display for displaying measured values and another 4-digit LED display for displaying settings, soft touch operation with Pt- 100 sensor, Display resolution °C, Accuracy  $\pm 0.1^\circ\text{C}$ . Automatic hysteresis control. Wide selectable temperature ranges from 0 °C to 100 °C, 4.4 KVA load heating & cooling each can be directly connected to the power output, Input- 200-240 VAC, 50 Hz. Single phase operated; CE certified

**Granite marbled table:**

Raised height platforms on 2 sides of lab area at least with WPC cupboards underneath it and 10 Nos of steel stools of adjustable height , Wash basins fitting with plumbing work on raised platforms

**Laboratory Table with end Sink:**

Acid / Chemical resistant and non- porous solid phenolic resin counter top 19mm. thick. Base cabinet made of phenolic compact board with sliding drawers and swing doors Sink- base cabinet made of phenolic compact board with swing doors.

**Apron/Leg room with** 1-sliding drawer made of compact board. Two- deck chemical resistant reagent rack with shelve guard.

**Laboratory grade gooseneck water faucet** with nozzle and fittings.

**Laboratory grade gas tap-**

spicket with nozzle and fittings. Chemical resistant polypropylene sinks with drain fittings.

**Chemical resistant pegboard with polypropylene pegs.**

Electrical outlet 2- gang universal 220V AC. Rubber-vinyl base.

**Shoe cover Dispensing machine –**

**Microwave Oven : 20 to 25 litres** all in one convection + Grill + microwave for lab with digital Panel, Make – Samsung/LG/IFB

**Fully Automatic washing Machine**

Cap - 6.5 kg , Make–Samsung/LG

**Glassware Washer:**

With 0.5HP Motor, two brush , fitted in the stainless sink in Lab Table.

**Laminar Air Flow as per requirement****Glass bead sterilizer**

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## **Media Preparation Equipments**

### **Plant Stacking Trolleys**

Stainless steel 2.5 x 2.5 cm size 2ft x 3ft x 3ft with good quality nylon wheel and four side protection support collar rods, SS Sq. Pipe Castor -4 nos. with 2 no shelves.

### **Laminar Chair / Working chair**

Steel frame cushioned chairs with or without arms.

## **OTHER NECESSARY ITEMS FOR THE COMPLETE OPERATION OF THE TISSUE CULTURE LAB.**

### **REQUIRED LAB EQUIPMENT'S**

#### **Electronic Balance**

#### **Deep Freezer**

#### **Shaker**

#### **Chlorophyll Content Meter**

#### **Digital Refractometer**

#### **Digital Vernier Caliper**

#### **Lux meter**

#### **NPK Uptake Pen Type Measurement Meter**

#### **Nitrate Strips kit for Nitrate Uptake-**

#### **Hygro Thermometer:**

Selection of unit °C, °F for temperature and % for humidity, High or Low ranges humidity with display resolution 0.4°, accuracy  $\pm 2^{\circ}\text{C}$ , capable to measure humidity Rang e:0- 100% at temperature ranging between 0- 59.9°C –

#### **Label Gun:**

Two row, eight characters per row, Top line with alpha numeric band and bottom line with alp ha characters –

#### **Media Preparation Equipment:**

Made of 304 grade stainless steel of 18 gauge round shape vessel with 14” dia and depth suitable to keep 50 ltr. of water holding capacity with three legs on the bottom raised 1’ from the floor and with a dispensing nozzle fitted at the bottom of the vessel.

#### **pH Meter:**

Digital with auto temperature compensation with combine p H electrode, RTD probe and accuracy for pH  $\pm 0.01$ , pH range 0- 14, Milivolt range 0 – 100 mv. Input 220 – 230V, 50Hz. Microprocessor based –

#### **Water purifier :**

Purified, Water Tank: 50 Litres (Hydrostatic) Purifying Capacity: 50Litres /hour Duty Cycle: 75 Litres /day (Max) Min. Water– Pressure: 0.3 Kg./cm square Input Power : 220 V AC 50 Hz (100-300V) Booster Pump: 24 V DC (1 No.) Filter Cartridge: Sediments. Pre- Carbon RO Membrane: 1812 - 75 GPD (1 no.)

#### **Steel Trays:**

Made up of 304 stainless steels, duly buffed provided with lifting collar

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**U V tube light :**

UV light 30 watt, 3' with powder coated finish fixture fixed with simulator

**Aluminum ladder:** 5 step, 6ft height, foldable, with rubber foot base top with sitting / standing plate form of 12"x12"

**Flooring:** Cement concrete floor base to be made of 40mm in 3 inch thick and cement concrete of 1:2:4 in 2 inch thick and further finished /flushed with Anti slippery vitrified flooring tiles (Preferred Make: Somany / Nitco/ Kajaria make & size of vitrified tiles: 2 feet x 2 feet) on the floor with proper drainage arrangements, slope etc. complete as required.

**Bottle Trays:**

Size 410 x 410x 108 MM

Made of Hi-Density PP

**Racks for Storage & Bottle :**

MS pipe 25mm x 25mm with off white powder coating arrangement size 4ft x 2ft x 6ft with 5 storage/ working shelve

Major List Glass ware & plastic ware

Plastic dustbin

Plastic tray Size: 402mm x 402mm x 105mm

Culture bottles

Caps

Water Supply system Overhead Tank Water line fitting Furniture Working Chairs

Tissue culture Lab Furniture & cupboard.

**CO2 Fire Extinguisher Capacity: 5Ltr**

**Auto start Generator of Required capacity**

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## Overall Project:

Particular
<b>Civil work and shed ( If required )</b> <b>Branded Vitrified Flooring cemented flooring if required</b> <b>Water connection &amp; plumbing arrangement</b> including all types of required sanitary wires like sink etc and fittings ordinary water tap / 3 way Swan neck water taps etc. <b>Toilet, Generator shed.</b>
Partition, Insulation in the Growth room Facility, Inoculation room & Wet Lab for Media preparation Make: Jindal
False Ceiling in the Growth room Facility, Inoculation room & Wet Lab for Media preparation
Providing & Fixing of Swing Door of PPGL of size 1.92 mtr x 1.1mtr/1.2mtr with viewing glass panel
Complete Electrical Wiring along with Fittings & necessary distribution system inside the Autotropic facility including the General Lighting arrangement in each Rooms
Front Glass partition Entrance Door
Instrumentation part: Growth Room Facility Sanco Make ISO 9001,13485,CE certified.  A) Tissue Culture Racks B) Positive Air Pressure Unit C) PLC based Programmable Photoperiodic Controller D) Automatic Control Arrangement for Temperature & Humidity system E) Air Curtain Unit-Make: Euronics / Genuine /Equivalent F) Air Exchange Unit G) UV sterilization Unit H) Manual & Digital Thermometer Market item I) Sequential Timer J) Refrigeration Unit as per requirement commercial
Instrumentation part: Inoculation Room Sanco Make ISO 9001,13485,CE certified. A) Laminar air flow as per requirement B) Glass bead sterilizer C) Manual & Digital Thermometer D) Air Curtain Unit, Make E) Air Exchange Unit F) Laminar Chair / Working chair Market item G) Sequential Timer H) Plant Stacking/Media Trolley I) Pass Box Unit J) Air conditioning as per requirement
Instrumentation part: Wet Lab for Media preparation Sanco Make ISO 9001,13485,CE certified. A) Media Preparation Equipment B) -20C Deep Freezer (350Lit approx.) C) Precision Analytical Balance: upto 0.1mg D) Magnetic Stirrer with hot plate E) Manual & Digital Thermometer F) Air Curtain Unit, Make G) Granite marbled table H) Laboratory Table I) Apron/Leg room J) Pegboard with Polypropylene peg K) Shoe Cover Dispensing Machine

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Instrumentation part: Autoclave Room Sanco Make ISO 9001,13485,CE certified.

- A) Vertical /Horizontal Autoclave as per requirement
- B) Shaker
- C) Pass box

Others Necessary Items / Equipment / apparatus:

- a) Imported Digital Refractometer 0-85% Milwaukee make
- b) Digital Vernier Calliper 6" 150mm Airspace Make
- c) Chlorophyl meter
- d) Lux meter 2,00,000 lux TES/HTC make
- e) Imported NPK Uptake Pen Type Measurement Meter OEM Sanco
- f) Imported Nitrate Strips kit for Nitrate Uptake-One Unit Each
- g) Hygro Thermometer HTC make
- h) Label Gun Market Item
- i) pH meter Sanco Make ISO 9001,13485,CE certified.
- j) Water Purifier Sanco Make ISO 9001,13485,CE certified.
- k) Steel trays Market item
- l) UV lights Market item
- m) Aluminium Ladder Market item
- n) Bottle Trays Market item
- o) Racks for Storage & Bottle Market item
- p) Slipper BI Colour laboratory grade Market item

- q) All quartz Water Double Distillation Unit- Borosil/Riviera/Sanco/Equivalent
- r) Dust Particle Counter
- s) Microwave Oven LG/Samsung Make
- t) Fully Automatic Washing Machine LG/Samsung/IFB or equivalent make

MAJOR GLASSWARE AND PLASTICWARE

Generator –complete with AMF Panel , installation, unloading , wiring etc.  
Ashoka Leyland/Kirloskar Make

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## HITECH ASSOCIATES

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Samrat Enclave, Pitampura New Delhi – 110034  
Factory : 1652, INDUSTRIAL ESTATE RAI, Sonapat Haryana

# 1. Tissue Culture Rack with White Lights

“SANCO Make” ISO 9001, 14001, 20000-1, CE Certified Co,  
MODEL NO. SAN-TC-103/104

Size of Racks: 7 ft. (H) x 4 ft. (W) x 2 ft. (D)

Shelf to Shelf Distance: 2 ft.

Shelf Structure: Anti-corrosive and humidity resistant material

Shelf Material: Perforated Sheet

Shelves: Illuminated shelves in one rack are: 03 Nos.

Total no. of shelves (Including top) in one rack: 04 nos.

Led Lights: 08 20W lights in each shelf of each rack, Total no. of lights in one rack 24 nos.

One separate switch is provided for every 2 lights



# 2. Tissue Culture Rack with Red and Blue Lights Size of Racks

“SANCO Make” ISO 9001, 14001, 20000-1, CE Certified Co,  
MODEL NO. SAN-TC-103/104

7 ft. (H) x 4 ft. (W) x 2 ft. (D)

Shelf to Shelf Distance: 2 ft.

Shelf Structure: Anti-corrosive and humidity resistant material

Shelf Material: Perforated Sheet

Shelves: Illuminated shelves in one rack are: 03 Nos.

Total no. of shelves (Including top) in one rack: 04 nos.

Led Lights: 04 20W (04 Red and 04 Blue colour lights with Average PPF<sub>D</sub>; 121  $\mu\text{mol}/\text{m}^2/\text{s}$ ) lights in each shelf of each rack, Total no. of lights in one rack: 24 nos.

One separate switch is provided for every 2 lights

Four Castor wheels in a rack for easy portability



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# 1. Laminar Air Flow

“SANCO Make” ISO 9001, 14001, 20000-1, CE Certified Co,

MODEL NO. SAN-149

Size in Feet: 4' x 2' x 2' (Width x Depth x Height)

Body: Mild Steel, duly powder coated

Air Intake: Top Vertical

Air Flow: Horizontal Air Flow

Light: Sufficient light should be available in working platform  
i.e. 1000-1250 Lux

UV Light: UV light should be included

Working Area: Stainless Steel top, anti glare

Noise: Permissible sound limits

Operating voltage: 220 V  $\pm$  9% A/C

Front Door/ Cover: Material should be solid polycarbonate  
vertical pull type with variable height adjustment.

Type - fresh air circulation, prefilters of 5 microns, final filter of Hepa filter, 0.3 microns, 99.995 % efficiency, suitable for Class 100 air supply in the cabinet, Vertical flow of air, Illumination - 36 W LED, UV , Air flow -vertical, Differential Pressure gauge - 0-25 mm / 0-50 mm on WG along with calibration certificate], Material of Construction Powder Coated GI and Working Table stainless steel 304 ,18 gauge

construction, Side panels - 5 mm thick float glass on both sides, with movable wheels, sliding door, size -4' x 2' – 2 Nos.



# 2. Dehumidifier

“SANCO Make” ISO 9001, 14001, 20000-1, CE Certified Co,

MODEL NO. SAN-TC-116

To maintain the humidity in culture room at 40%  $\pm$  5%.

Sensor Range: 0-100%

Operating voltage: 230v  $\pm$  10 ,50hz.

Output humidifier and Dehumidifier load: 2kw.

The entire system should be completely automated with set parameters.



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**FULLY AUTOMATIC AUTOCLAVE VERTICAL**  
**“SANCO Make” ISO 9001, 14001, 20000-1, CE Certified Co,**

**MODEL NO. SAN-101**

Operating Temperature Range: sterilizing - 105 – 135°C (0.019 – 0.212 MPa) , Heating 45 – 104°C (0 – 0.015 MPa) ; warming- 45 – 95°C

Temperature Display and range: Digital and sterilization range - 0:00 – 9:59, 0 – 99 hours, 0 – 999 min. ; heating range (0:00 – 9:59, 10 – 99 hours changeable); warming range- Variable: 0 – 99 hours.

Programmable display panel: Digital display panel for temperature, pressure.

Pre-set timer to allow start time delay up to 99 hours, to allow sterilizing at the most convenient time.

Sterilization function (105 – 135°C) programmable up to 10 hours and heating (45 – 95°C) for up to 99 hours.

Pressure Gauge display and range: Analog and 0 – 0.4 MPa;

Power consumption: 3 K.W. /4 K.W./ 5 K.W. (As Per Size)

Small footprint and Comfortable height design

Mobile- stands on wheels, which will allow to be moved and stored under a bench.

**Optional**

Weight : Approx.- 70 K.G / 90 K.G (As Per Size)

Chamber material and capacity: SUS304 or equivalent. with stainless steel stackable basket system.

Mechanically assisted single lever lid and foot pedal.

Easily changeable chamber lid gasket for easy maintenance.

Cooling fan system: should be equipped with a dual-fan cooling system to reduce cooling time, thereby shortening overall operation time.

Safety features: Water level and temperature sensor,

- Current leakage breaker
- Mechanical lid interlock
- Over-heat prevention
- Over-pressure prevention
- Open temperature sensor detection
- Safety valve and should display an error message on the screen

Sizes : 14” x 22”  
: 16” x 24”  
: 18” x 24”  
: 28” x 30”



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# TISSUE CULTURE EQUIPMENTS

## **SAN-TC-101** PHOTO SIMULATOR/ ELECTRONIC BALLAST/LED

These produces broad spectrum simulated Natural Light 400 to 750 nm from gen. Tube Light

## **SAN-TC-102** PAR LAMP

## **SAN-TC-103** PHOTO PERIODIC SIMULATION CASTOR RACK

It provides 16 tubes lights with Photo Simulator (TC-101) to produce excellent Photo simulated light. Provided with 5 shelves, out of which 4 are illuminated. Shelf Size 125 cm x 52.5cm (50" x 21") Height 150 Cm Shelf to Shelf distance 37.5 cm (15") Shelf Base glass or Polymer sheet Illumination : 1.2K Lux at 5 cm above shelf level & 8K lux at 15 cm above shelf level. Frame : Made of 25 x 25 mm square pipe with siemens gray / off white colour. Rack is Mobile with 4 castor wheels. Input : 200-220 V AC Single Phase.

—Do—same as above but with 4 nos. PAR Lamps i.e. one in each shelf

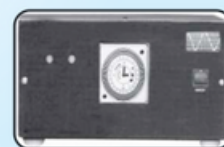
## **SAN-TC-104** PHOTO PERIODIC SIMULATION CASTOR RACK

It provides 20 tubes lights with Photo Simulator (TC-101) to produce excellent Photo simulated light. Provided with 6 shelves, out of which 5 are illuminated. Shelf Size 125 cm x 52.5 cm (50" x 21") Height 187.5 Cm (75") Shelf to Shelf distance 37.5 cm (15") Shelf Base glass or Polymer sheet Illumination : 1.2K Lux at 5 cm above shelf level & 8K lux at 15 cm above shelf level. Frame : Made of 25 x 25 mm square pipe with siemens gray / off white colour. Rack is Mobile with 4 castor wheels. Input : 200-220 V AC Single Phase.

—Do—same as above but with 5 nos. PAR Lamps i.e. one in each shelf

## **SAN-TC-105** PHOTOPERIODIC SIMULATOR

Analogue type switches on/off lights at the time set by the user. Photoperiodic repeat cycle : 24 hrs. Min on/off period : 30 minutes Back up auto recharging : NICAD Powered Output : Directly drives up to 100 tubes lights of 40W each. Thermal Safety : 15 A output, Accuracy :  $\pm 1$  sec./day



**SAN-TC-105**



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# TISSUE CULTURE EQUIPMENTS

## **SAN-TC-106** DIGITAL PHOTOPERIODIC SIMULATOR

Same as SAN-TC-105, but with Digital type setting of timer by Thumb Wheel Switch

## **SAN-TC-107** PROGRAMMABLE PHOTOPERIODIC SIMULATOR

With accuracy better than  $\pm 1$  sec./day & facility of programming

## **SAN-TC-108** SEQUENTIAL TIMER

For operating two air conditioners of 1.5 tonnes each  
Output : Operates two AC's up to 1.5 tonnes each.  
Min. On/Off Cycles: 30 Minutes

## **SAN-TC-109** BIOTECH ROOM TEMP. CONTROLLER

Temp. Range 0.1°C to 70°C  
Accuracy :  $\pm 1^\circ\text{C}$   
LED : 13 mm with PT-100 sensor  
Directly output 1.5 ton A.C. & 4.4 KW Heat Convectior.



**SAN-TC-109**

## **SAN-TC-110** MICROPROCESSOR BASED ROOM TEMP. CONTROLLER

do- same as SAN-TC-109 but with programmable temperature controlling of the room.

## **SAN-TC-111** ROOM TEMPERATURE CONTROLLER ANALOGUE

Range : 0 – 50°C  
Accuracy :  $\pm 2^\circ\text{C}$ , For 1.5 tonne AC/4.4 KW Heater

## **SAN-TC-112** HUMIDITY CONTROLLER ANALOGUE

Control Humidity from Ambient to 90% with imported, Humidstat with switching unit, etc.

## **SAN-TC-113** HUMIDITY CONTROLLER DIGITAL

Control Humidity up to 98% with LCD Display with imported RH Sensors and direct output for humidifier/ dehumidifer of 4 KW.



**SAN-TC-113**

## **SAN-TC-114** HUMIDIFIER (COOLED WATER BASED)

Evaporating Disc Type, with open pan made of Stainless Steel, with water level arrangement, plug cord, etc. Input water is tap water.  
**Capacity 3 - 5 ltr/hr.**



**SAN-TC-114**



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# TISSUE CULTURE EQUIPMENTS

## SAN-TC-114 (A)

### HUMIDIFIER (STEAM BASED)

Humidity is created through steam based heating system, body made of thick fiber sheet with water tank having water level arrangement & cover made of thick aluminum sheet duly powder coated. Steam is generated by stainless steel steam generator.

**OPTIONAL : (FOR SAN-TC-114 & 114A)**

**Humidity controlled by Imported humidistat at extra cost**

## SAN-TC-116

### DE HUMIDIFIER PORTABLE (COMPRESSOR BASED)

with reciprocating compressor and CFC free, R 134A – coolant, Works on 220 Volts, running temperature 5°C to 35°C . Humidity can be adjusted / set

Model	SND 290	SND 318	SND 390
Power (w)	280	420 Watts	620 Watts
Extraction (ltrs.)	12 litres (30oC,90%RH)	18 litres (30oC,90%RH)	35 litres (30oC,90%RH)
Weight	12 kgs	18 kgs	21 kgs
Dimen. (wxdxh)	12x8x20	14x11x23	15x12x24
coverage	upto 150 sq.ft.	upto 250 sq.ft.	upto 350 sq.ft.
Tank Cap.	2 litres	5 litres	6.5 litres



SAN-TC-116

## SAN-TC-117

### DEHUMIDIFIER (SILICA BASED)

Total frame and panels and powder coated sheet. Desiccant type complete system consisting of Imported desiccant wheel, process and reactivation fans and motors, electrical Heaters, filters.

#### ROTOR :

Dehumidifiers incorporate Silica Gel Rotors, 100% imported from Sweden, which are economical and energy efficient. These rotors perform equally well at low and medium moisture applications. Life of these rotors is 10 to 12 years. Provided with suitable fillers. Rotor media has high performance metal silicate synthesized in situ. Rotor perimeter flange extends media & seal life and it is not inflammable. Automatic reactivation. Differential air pressure switch for reactivation flow. RH level 20% to 30% ( $\pm 3$  to 5% RH). Provided with crompton motor 3 phase, safety thermostat, motor fault indicator on the control panel, humidity indicators etc.

MODEL	Process Air Flow	Heaters
SCCB -30	180 CFM (300CMH)	5.0 KW
SCCB -60	360 CFM (600CMH)	6.5 KW
SCCB-100	600 CFM (1000 CMH)	12.0 KW



AN-TC-117



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# TISSUE CULTURE EQUIPMENTS

## SAN-TC-115

### DE HUMIDIFIER (COMPRESSOR BASED)

It helps in decreasing the humidity by condensing the water on the harmatically sealed compressor in shape of ice & than converting the same in water. Provided with Trolley withwheels & Humidstat.

**Capacity 1.0 ton, Capacity 1.5 ton**



SAN-TC-115

## SAN-TC-118

### BIO-TECH HEAT CONVECTOR

Heavy duty input 220 V AC single phase

**Pillar type rotatable in 1800**

## SAN-TC-122

### OZONE GENERATOR

Model	-OZ AIR 0.75
Capacity	: 750mg/hr.
Room Volume	: 2000 cu ft.
<b>Continuous operation</b>	
Variable Range	: 20-100%
Blower Capacity	: 2 x 105 cfm.
Feed Gas	: Air
Electric Power	: 65 W
Dimension	: 280 x 225 x 385mm (HWD)
Weight	: 11 kg.



SAN-TC-122

## SAN-TC-123

### CULTURE BOTTLE WITH LID

Capacity 375 ml. Autoclavable made of glass and cap made of PP screw type.

## SAN-TC-124

### PETRIDISH (DISPOSABLE)

90mm Dia, individually sterilized and packed (Rates per 100)

## SAN-TC-125

### PETRIDISH (AUTOCLAVABLE)

(Rates per 100)

### TEST TUBE CAP ( POLY PROPYLENE FOR COVERING TEST TUBES.)

## SAN-TC-126

Dia 25.5 mm ( Rates per 100), Dia 18.5 mm (Rates per 100)



Mfr By.:

# HITECH ASSOCIATES



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