

DESERT COOLER TEST FACILITY



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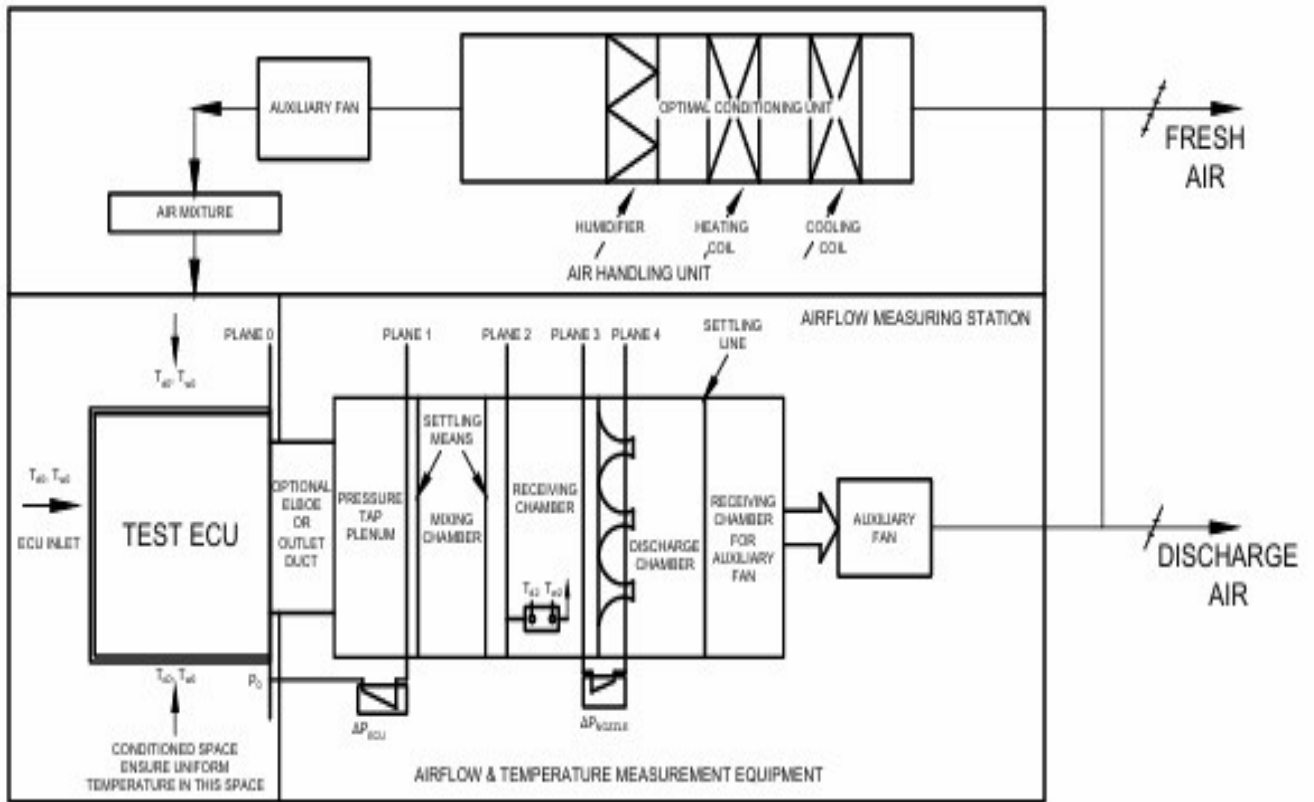


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Plot no. 38 , Kh No 52/5 , Nangli Poona Village , Delhi-110036 :





- PLANE 0 ECU INLET SURFACES
- PLANE 1 PRESSURE TAP STATION
- PLANE 2 TEMPERATURE MEASUREMENT STATION
- PLANE 3 NOZZLE INLET STATION
- PLANE 4 NOZZLE DISCHARGE STATION

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Walk-in Environmental Test Chamber :

Dimension (WXDXH): 10 x 6 x 8 Feet or Customized
Temperature Range : Ambient to 45°C
Temperature sensor : PT-100 Thermal Sensor
PUF Wall Panel : The Panel Would be made up of 60mm thick composite PUF 0.5 mm sandwich with inner and outer Pre-Painted Galvanised steel Sheet. The panels would be made of micro ribbing layer of PU foam of density of 40±2 kg/m ³ as insulation. The panels will have tongue groove arrangement. Colour would be preferably RAL 9002 – Off white
PUF Roof Panel : - The Panel shall be made up of 60mm thick composite PUF 0.5 mm sandwich with inner and outer Pre-Painted Galvanised steel Sheet. The panels shall be made of micro ribbing layer of PU foam of density of 40±2 kg/m ³ as insulation. Colour would preferably RAL 9002 – Off white
Single Doors :- PPGI framed PUF panel Single leaf with swing/overlap door will be provided with fittings.
Chamber Floor :-The Panel shall be made up of 60mm thick composite PUF 0.5 mm sandwich Pre-Painted Galvanised steel Sheet and chequered Aluminium Sheet.
Installation :- Complete installation and its installation material like silicon, pop riveet, hardner, nut bolts, fastners, stiffner etc will be in our scope of work.
Light : LED lighting inside chamber.
Dry Bulb & Wet Bulb : 01 nos (using 02 nos temperature sensor from 16 temperature sensors)

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Air Handling Unit (AHU) :

<p align="center">(a) Cabinet & Construction :</p> <p>PUF Wall Panel : The Panel Would be made up of 60mm thick composite PUF 0.5 mm sandwich with inner and outer Pre-Painted Galvanised steel Sheet. The panels would be made of micro ribbing layer of PU foam of density of 40±2 kg/m³ as insulation. The panels will have tongue groove arrangement. Colour would be preferably RAL 9002 – Off white</p>
<p>PUF Roof & Base Panel: - The Panel shall be made up of 60mm thick composite PUF 0.5 mm sandwich with inner and outer Pre-Painted Galvanised steel Sheet. The panels shall be made of micro ribbing layer of PU foam of density of 40±2 kg/m³ as insulation. Colour would preferably RAL 9002 – Off white</p>
<p align="center">(b) AIR :</p> <p>Blower : High Speed motorised blower which is controlled by Drive in control panel. Capacity : 9000CMH</p>
<p align="center">(c) Heating :</p> <p>High Capacity Air heater is installed in AHU. Air Heater (Capacity) : 6 kW</p>
<p align="center">(d) Cooling :</p> <p>High Capacity Cooling unit is installed in AHU.</p>
<p>(e) Ducting : Metal based ducting with aluminum Foil over 13mm thick Nitrile as thermal insulation .</p>
<p>(f) Humidifier : Ultrasonic automatic humidifier which is controlled by HMI & PLC based Humidity controller.</p>

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Environmental Controller & Data Acquisition System :

Material of Construction : GI sheet (20 Gauge) with powder coating Treatment.
(a) Power Analyser : Voltage , Current , Frequency , Power , Energy , Power Factor .
(b) VFD DRIVE : AHU air blower control by VFD drive.
(c) Temperature & Humidity Controller : HMI & PLC based temperature & humidity controller with data logging facility.
(d) 16 Channel Sensor box : Sensor box with 16 temperature sensor with logging in software.
(e) System Software : This customised system software is based on Microsoft Windows system, it is design according our chamber type & product details and custom's special re-equipment's. The System consist of high speed CPU Based PC & Software. System software include some necessary test function according the relative international test standard, it provide function for testing, that include the logging of voltage , current, power, energy and 16 channel Temperature sensor.

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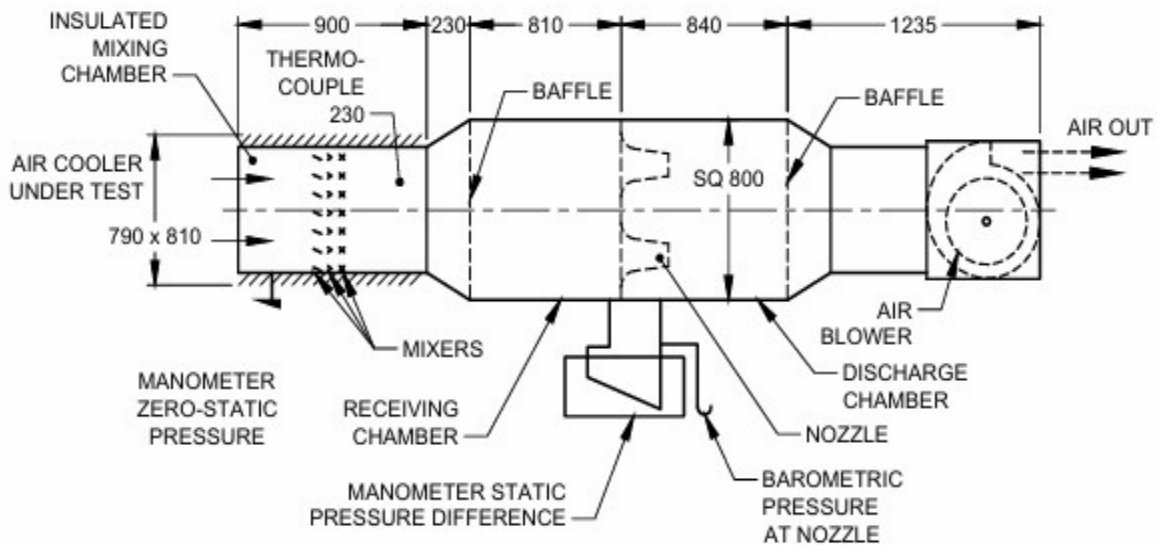


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TEST DUCT : (As per IS 3315:2024 and Amendment No.1, January 2026)

**TEST DUCT : (As per IS 3315:2024 and Amendment No.1
January 2026)**
 Mixer : 01 Nos
 Nozzle : 05 Nos
 Exhaust Fan : 01 Nos
 Manual damper : 01 Nos
 Dry Bulb & Wet Bulb : 01 nos (using 02 nos temperature
 sensor
 from 16 temperature sensors)



All dimensions in millimetres.

TYPICAL AIRFLOW AND TEMPERATURE MEASURING APPARATUS

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OTHER ACCESSORIES (as per customer requirements) :

Digital Manometer

Quantity : 02 Nos

Digital Anemometer

Quantity : 01 Nos

A display for Air delivery to chamber from AHU.

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