

SALT SPRAY TEST CHAMBER

Salt Spray Test Chamber as per ASTM-B 117



MCS
INDUSTRIAL
AUTOMATION

MACHINE CONTROL SYSTEMS

DT-146; TIRKHA COLONY NEAR SEC-3 BALLABGARH

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Chamber Size	270 Liter		Price	100000
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FEATURES

1. Chamber Capacity 270 Liter for Laboratory : As per ASTM b 117 and ISO 9227 Standards
2. Chamber Size : L*W*H = 900mm*600mm*470mm
3. Overall Size (Space Required For Machine) approx. : L*W*H = 1250mm*700mm*870mm
4. Main Chamber PP, 10 MM Sheets
5. Acrylic Transparent Top 5 MM
6. Material Hangers 6-8 Hanging Rods (Depending on Max. Job Size)
7. Main Water Tank Separated From Spray Chamber. Capacity 25 Liters.
8. Saline Solution Label Low in Reservoir Tank Indication at front panel.
9. Auto fill and label maintaining System for Reservoir Saline tank. Sensors available for maintaining water level between high and low levels.
10. Chamber Waste water Auto Drainage Control Systems. (No manual drain)
11. Compressed Air Circulation Periodically in Saline tank for dissolving residues.
12. Fully Automatic Temperature Controller double display for Heating of Water.
13. Temperature over Heat Warning Indicator on front panel.
14. Separate Temperature and Humidity Indicator for Chamber Temperature and Humidity.
15. Well Insulated Electric Shock Free, anti-Corrosion, Unbreakable Heaters (Life 10 Years/ No Glass Heater)
16. Fogging System Centralized as per ISO 9227 and ASTM B 117.
17. Standardized Fogg collection System as per ASTM B 117.
18. Automatic Fogg Operating System Controlled by Process Switch ON / OFF
19. Hour Meter 999 Hours 59.9 Minutes
20. Digital pH Meter with Sensor for Monitoring Online pH Value of Saline Solution
21. Digital Humidity Meter with Sensor to Monitor Humidity of Chamber.
22. Process Complete Buzzer Alarm with Indicator
23. Supply 220 VAc

1. SCOPE :- Apparatus suitable to salt spray (fog) testing of ferrous and non ferrous metals and also used to test inorganic and organic especially where such tests are the basis for material or products specifications.

2. APPARATUS :- The apparatus required for salt spray (fog) testing consist of “Fog Chamber” Salt solution chamber, Air Supply System, one or more atomizing nozzle, specimen supports, heaters for heating salt solution and necessary means of control.

3. Saline Solution :- The Solution Used for Salt Spray Test should approx. Saline Solution of 5% vv. Approx, Specimen should Hang in way that no droplet should accumulated on it.

Equipment's used

- 1. Temperature Controller :-** To Control temperature of Humidity / Chamber for heating of fogged water, with Auto Cut system to maintain temperature with in specified range 32 to 37 degree Celsius.
- 2. Saline Concentration Meter:-** this Meter examine Concentration of Dissolved salt in saline Solution, we may set tank capacity in this meter. Display will show how much quantity to be added more or extra in solution from 5% vv.
- 3. Humidity and Temperature Indictor :-** To Observe temperature and Humidity inside of salt spray Chamber. The exposure zone of salt spray chamber shall be maintain at 35 +/- 2 degree C while Humidity should be more than 90%.
- 4. Hour Meter :-** To observe / inspect condition of test samples periodically and recording long with time At least 3 digits in Hour and 2 digits in minutes
- 5. pH Meter :-** To check ph Value of solution using for spray. The pH value of salt solution shall be such that when atomized at 35 degree C the collected solution will be in the pH range from 6.5 to 7.2. pH Value must be recorded after 48 Hrs of Running.
- 6. AIR SUPPLY :-** The air supply must be free from Oil, Dust, , the air supply / pressure must be maintain in such a way so that salt fog occurs, Pressure must be 1 Kg +/- 0.2 Kg
- 7. ATOMIZATION AND QUANTITY OF FOG :-** The fog shall be such that for each 80 cm² (4 Inch Funnel) of horizontal collecting area, there will be collected from 1.0 to 2.0 mL of solution per hour based on an average run of at least 16 h

Electrical Wiring Diagram

