

# Salt Spray Chamber / Corrosion Test Chamber / CASS Cum



## Product Info :

Salt Spray Chamber/ Corrosion Tester is high-quality, precised and one of the most frequently-used quality testing equipment that evaluates the corrosion resistance capacity of metal surfaces, and coated or painted materials. It helps analyze the quality of paint or coating and helps the manufacturer understand how long it can stay on the material surface and fight a corrosive environment. The tester is composed of Fibre Reinforced Plastic(FRP) which gives additional benefits.

The machine comes with advanced features and is capable of recreating the real-life corrosion environment within its chamber. It can deliver accelerated results in the test; it 15,000 to 20,000 hours of a test is the equivalent of 20+ months of continuous corrosion exposure Metal long exposed to oxygen molecules present in our atmosphere in the form of humidity in air or water itself can lead to oxidization of material further resulting in corrosion.

To avoid this situation, the products are coated or painted with high-resistant paints or coatings. The coating acts as a barrier between the surface and the outer air. After long exposure to the corrosive environment when the coating structure fails to resist, it cracks and allows further oxidization of the metal surface below and resulting in damage to the product. Hence, the manufacturers have to ensure that the quality of their products is efficient enough to survive the extreme corrosive conditions for a long time without being subjected to any damage or deformation. Salt spray tester is efficient testing equipment that can evaluate the corrosion resistance of products such as paint, coating and a wide variety of metal components. The instrument is designed for easy operation and accurate testing results. Most of the materials that are subjected to corrosion due to environmental factors include metals, soft metals, stainless steel, aluminium etc.

## TECHNICAL DATA :

- Controls: Digital (Microprocessor Based Control System)
- Capacities : 250 Litres, 450 Litres & 1000 Litres
- Inner Chamber Construction : Fibre Reinforced Plastic (FRP)
- Chamber Temperature Range : Ambient to 45<sup>0</sup>C
- Test Chamber Temperature Range : 35<sup>0</sup>C ± 2<sup>0</sup>C
- Chamber Temperature Least Count : 0.1<sup>0</sup>C
- Chamber Temperature Repeatability : ±2<sup>0</sup>C
- Air Saturator Temperature Range : Upto 45<sup>0</sup>C
- Air Saturator Temperature Least Count : 0.1<sup>0</sup>C
- Air Saturator Temperature Repeatability: ±2<sup>0</sup>C
- pH value of Salt Solution : 6.5 to 7.2 pH
- Temperature Control : Inbuilt PID Temperature Controller
- Timer: 6 Digits Hour Meter
- Test Air Pressure : 0.7 Kg/cm<sup>2</sup> & 1.2 Kg/cm<sup>2</sup>
- Air Regulator : 0. To 30 psi
- Fog Collector : Available inside the chamber
- Fog Collection : 1-2ml per 80 cm<sup>2</sup> per hour as per standards
- Measuring Cylinder (External) : Available (Capacity:50ml)
- Reservoir Tank for Solution : Capacity- 100Ltrs
- Related Standard : ASTM B117, ISO 9227, JIS Z 23717

### Inner Dimensions of Salt Spray Chamber

50mm x 600mm x 550mm (250 Liters)

900mm x 800mm x 625mm (450 Liters)

1500mm x 950mm x 700mm (1000 Liters)

## FEATURES :

- Air Saturator to develop salt fog or spray from the saltwater in the reservoir. It ensures microbubble of the saltwater uniformly spreads over the testing sample to activate corrosion.
- Water Low-Level Alarm marks the decreasing level of saltwater in the reservoir.
- Fog Collection Funnel is a special feature that collects the salt fog used in the test during the procedure so that the user can check the quality of the salt fog created.
- Air Saturator Auto Refilling features ensure that during long hours testing the salt fog doesn't stop.
- Over Temperature Alarm is a safety feature.

## Our Valuable Customer



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