

# Salt Spray Test Chamber-270L

## by Autotest Mechanisms Pvt Ltd

The equipment has been designed suitably for evaluating the corrosion resistance of the surface treatment of metallic material by salt spray test method in accordance with ASTM B117 and shall satisfy the test condition as follows.

1. The atomizing nozzles shall not atomize directly on the test piece.
2. The drop and solution accumulated on the ceiling shall not drip on the test piece.
3. The solution dripped from the test piece shall not be used for test again.
4. The spray pressure shall be kept between 0.7 and 1.1 Kg/cm2.
5. The exposure zone of the salt spray chamber shall be maintained at  $35 \pm 2$  deg C.
6. The material of the test chamber shall not be corroded itself.



### CONSTRUCTION

- It consists of a test chamber, an air saturator, a solution supply tank, a control panel.
- The spraying mechanism and the construction of the salt spray chamber made of filter reinforced plastic mould is as per the details given in the relevant standard. The salt spray is produced by specially designed atomizers employing compressed air from supply line through filter regulator.
- The air pressure for spraying and agitation of salt solution can be adjusted by control valves.
- The air from the compressor is connected to the chamber through air filter, pressure regulator and a saturation tank through which the air is bubbled & heated up electrically to maintain the temperature inside the chamber constant at  $35 \pm 2$  deg C by means of a digital temperature controller.
- The saturation tank supplies a heated, humidified clean air for atomization of the solution. It consists of a stainless-steel tank, a heater, a bubbling nozzle, a pressure regulator and a pressure gauge.



#	Parameter	SST Chamber by AUTOTEST
1	Standard	ASTM B117
2	Chamber Inner Dimensions	L:700mmXB:500mmXH:420mm + 500m Dome
3	Body Material	FRP with SS Cover with transparent acrylic dome
4	Heater	Yes 1Kw
5	Test Chamber Temperature	$35^\circ\text{C} \pm 2^\circ\text{C}$
6	Air Pressure Regulator	Yes
7	Time Totalizer	Yes
8	Temperature Sensors	2 X PT100 Corrosion Free
9	Temperature Control	2 x Built-in PID Controller
10	Fog Collector	Yes
11	Water Level Indicator (Saturation Tank)	Yes
12	Specimen Racks	Provided
13	Castor Wheels	Yes
14	Salt Solution Tank Capacity	10L (Approx.)
15	Saturation Tank Capacity	20L (Approx.)



**AUTOTEST MECHANISMS PVT LTD,**  
D-51, SEC-2, NOIDA – 201301  
UTTAR PRADESH, INDIA.  
PHONE: +91 9899887892  
EMAIL: [VIPUL.SAXENA@AUTOTESTINDIA.COM](mailto:VIPUL.SAXENA@AUTOTESTINDIA.COM)



WEBSITE: [WWW.SALTSspray.IN](http://WWW.SALTSspray.IN) | [WWW.AUTOTESTINDIA.COM](http://WWW.AUTOTESTINDIA.COM)

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# Salt Spray Test Chamber-500L

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The equipment has been designed suitably for evaluating the corrosion resistance of the surface treatment of metallic material by salt spray test method in accordance with ASTM B117 and shall satisfy the test condition as follows.

1. The atomizing nozzles shall not atomize directly on the test piece.
2. The drop and solution accumulated on the ceiling shall not drip on the test piece.
3. The solution dripped from the test piece shall not be used for test again.
4. The spray pressure shall be kept between 0.7 and 1.1 Kg/cm2.
5. The exposure zone of the salt spray chamber shall be maintained at  $35 \pm 2$  deg C.
6. The material of the test chamber shall not be corroded itself.



- It consists of a test chamber, an air saturator, a solution supply tank, a control panel.
- The spraying mechanism and the construction of the salt spray chamber made of filter reinforced plastic mould is as per the details given in the relevant standard. The salt spray is produced by specially designed atomizers employing compressed air from supply line through filter regulator.
- The air pressure for spraying and agitation of salt solution can be adjusted by control valves.
- The air from the compressor is connected to the chamber through air filter, pressure regulator and a saturation tank through which the air is bubbled & heated up electrically to maintain the temperature inside the chamber constant at  $35 \pm 2$  deg C by means of a digital temperature controller.
- The saturation tank supplies a heated, humidified clean air for atomization of the solution. It consists of a stainless-steel tank, a heater, a bubbling nozzle, a pressure regulator and a pressure gauge.



#	Parameter	SST Chamber by AUTOTEST
1	Standard	ASTM B117
2	Chamber Inner Dimensions	L:1000mmxB:750mmxH:600mm + 500m Dome
3	Body Material	FRP with SS Cover with transparent acrylic dome
4	Heater	Yes 1Kw
5	Test Chamber Temperature	$35^\circ\text{C} \pm 2^\circ\text{C}$
6	Air Pressure Regulator	Yes
7	Time Totalizer	Yes
8	Temperature Sensors	2 X PT100 Corrosion Free
9	Temperature Control	2 x Built-in PID Controller
10	Fog Collector	Yes
11	Water Level Indicator (Saturation Tank)	Yes
12	Specimen Racks	Provided
13	Castor Wheels	Yes
14	Salt Solution Tank Capacity	100L (Approx.)
15	Saturation Tank Capacity	20L (Approx.)



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