



Salt Spray Corrosion Test Chambers

NaCl salt spray corrosion test chambers are cost effective and are capable of complying with the most popular international standards for salt fog testing including:

*ASTM B117,
ISO 9227,
DIN 50 021 and
IS Z 2371.*



Introducing the NaCl Chambers

NaCl, LLC offers the newest and most modern salt fog testing chambers for your testing requirements. NaCl chambers are offered in 500 Liter and 1000 Liter models and are cost effective solutions to accelerated corrosion testing of samples in salt fog. Models have an uncomplicated design that has optimized the open area to maximize the number of test coupons while providing headroom for testing large and bulky objects.

- **Ergonomic design** The NaCl chambers are floor standing units with lockable wheels to allow easy and secure repositioning. Height and reach distances provide easy access for loading and unloading coupon samples into removeable slotted racks. An optional reinforced false floor is available to easily locate bulky and heavy test items.
- **Accessibility** The NaCl chambers have an uncomplicated design that optimizes the open area to maximize the number of test samples while providing ample room for testing large and bulky items.
- **Visibility** The gabled canopy is a single layer of transparent material that provides visibility during testing. An optional fully insulated non-transparent canopy, with greater thermal efficiency, is available.
- **Clean operation** The combined water drain and fog vent removes the test water and fog from the chamber to prevent salt fog escape into the test lab atmosphere when the canopy is opened.
- **Long chamber life** The chambers are made of marine-grade fiberglass that stands up to the relentless attack of the corrosive test environment.
- **Price** These chambers are one of the most cost effective corrosion test models in the marketplace.

Operation and Control

A digital dual-loop temperature controller enables the operator to independently set the chamber temperature and the temperature of the bubble tower. The chamber is heated by a wrap-around heater jacket which is bonded to the exterior surface of the internal workspace to protect it from damage from the corrosive climate created inside the test chamber. The bubble tower humidifies the compressed air on the way to the salt fog atomizer and is heated by an immersion heater. Both the cabinet and bubble tower are equipped with over-temperature protection safety thermostats.



The water level in the bubble tower can be filled with de ionized water in one of two ways-either automatically, if the chamber is connected to a pressurized water supply, or by hand, using the manual filler port which is standard on both NaCl models.

A separate external salt solution reservoir, where the salt water to be atomized into a fog is mixed and held, is provided with both NaCl models. The utilization of a separate external salt solution reservoir facilitates quick change-overs when going from an ASTM standard to a DIN standard.

Salt fog fall-out is controlled by an adjustable flow control meter located on the control panel. This, coupled with the integrated air pressure regulator and gauge, is used to ensure a uniform and continuous fall-out of salt fog onto the samples under test.



Specifications

	SS-500	SS-1000
Chamber capacity	500 Liters	1000 Liters
Salt water reservoir	90 Liters	
Sample holder rods	7	9
Slots per holder rod	30 (24*)	38 (32*)
Max no. test coupons	204 **	336 **
Cabinet temperature	ambient... +50° C	
Bubble tower temperature	ambient...+65° C	
Input power 220/240 VAC 1ø, 60/50 Hz	Max Current: 6 A	Max Current: 9 A
Salt fog fall-out rate	1... 2 $\frac{\text{mL}}{\text{hr}}$ / 80 cm ²	

* Sample holders are pre-cut with 3 mm slots angled 15° to vertical. They hold coupons and other test samples. All but one is movable. The center holder is fixed, holds the spray atomizer, and has 6 fewer coupon slots.

** The maximum number is determined using nominal test coupons 100 mm wide by 150 mm high (4"x^")

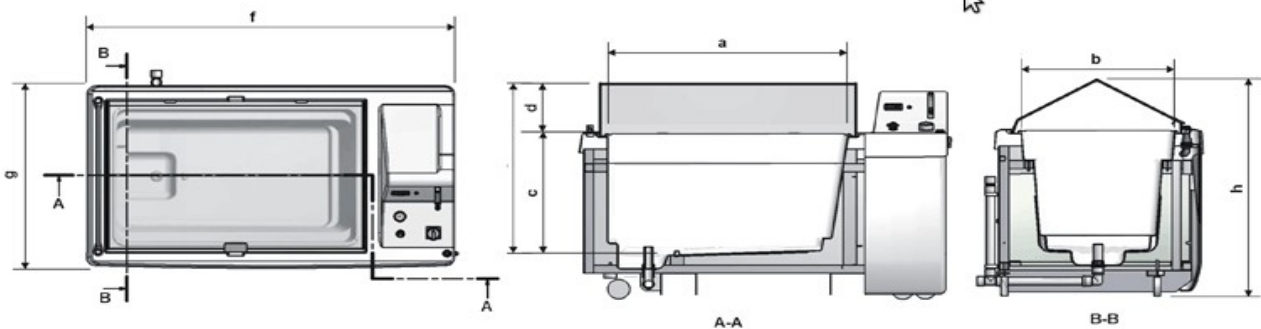
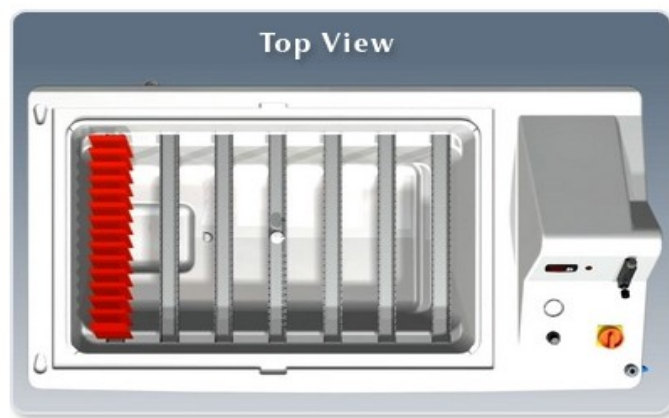
Installation Requirements

All NaCl chambers require the following:

- A clean, oil free compressed air supply to atomize the salt water into fog.
- Either pressurized or manual de-ionized water supply for making up the salt water solution.
- Single phase 220/240 VAC with both neutral and earth ground.
- Connection to an exhaust vent to atmospheric pressure and a low level waste water floor drain.

Dimensions

mm (inch)	500 L	1000 L
a	1076 (42.4)	1553 (61.1)
b	683 (26.9)	836 (32.9)
c	616 (24.3)	620 (24.4)
d	251(9.9)	304 (12.0)
e	867 (34.1)	924 (36.4)
f	1650 (65.0)	2127 (83.7)
g	934 (36.8)	1127 (44.4)
h	1102 (43.4)	1159 (45.6)



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