



SALT SPRAY CHAMBERS



Standard 1000ltr
salt spray chamber

Salt spray (also known as salt fog or salt mist) continues to be the corrosion test of choice for comparing actual product performance with expectations – usually in accordance with international test standards. This is, therefore, a very popular test for quality auditing.

Ascott salt spray test chambers are offered in two model ranges: Standard & Premium.

Standard models are designed for continuous salt spray tests, conducted at a single user-adjustable temperature, such as ASTM B117, ISO 9227, JIS Z 2371 etc. They may be used with pH neutral salt solutions (NSS) or test solutions acidified by the addition of Acetic Acid (ASS) or Cupric Acid (CASS).

Premium models can perform the same basic salt spray tests as Standard models, but in addition are equipped with extra features which enable them to undertake 'modified' tests such as ASTM G85. Here conventional salt spray is usually combined with one other climate, in a two-part cycle. For example: salt spray and condensation humidity (SWAAT) or salt spray and drying (PROHESION).



Premium 120 Ltr salt spray chamber

Performance

- Temperature range
Adjustable from ambient to +50°C/+122°F
- Salt spray fall-out rates
Adjustable from 0.5 to 2.5 ml per 80 cm² per hour
- Wetting mode (Premium chambers only)
Adjustable from ambient to +50°C/+122°F
- Drying mode (Premium chambers only)
Adjustable from ambient to +50°C/+122°F

Six models

- 120 Ltr (4.2 cu ft)
- 450 Ltr (15.8 cu ft)
- 1000 Ltr (35.3 cu ft)
- 1300 Ltr (45.9 cu ft)
- 2000 Ltr (70.6 cu ft)
- 2600 Ltr (91.8 cu ft)

Features

Standard models

- 'Easy Open' pneumatically operated canopy.
- Touch-screen monochrome operator control interface.
- Dry seal gasket prevents wetting operator's clothes, etc.
- Low loading threshold for loading and unloading.
- Canopy color choice.
- Interior viewing window.
- Automatic purge of the chamber interior before opening.
- Salt solution reservoir.
- Set of sample racks

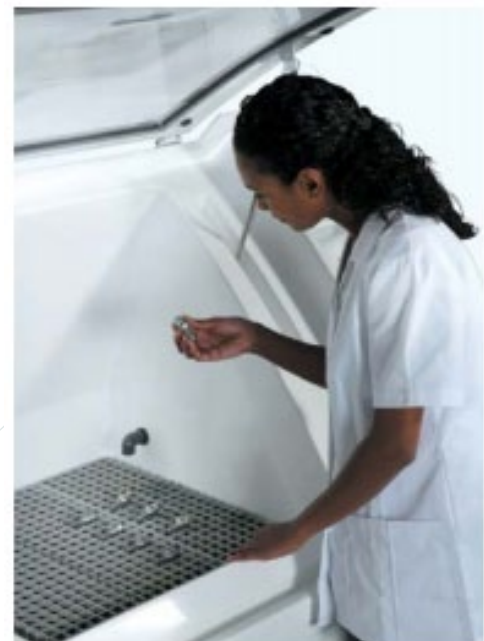
Premium models

Premium models have the same features as Standard models plus:

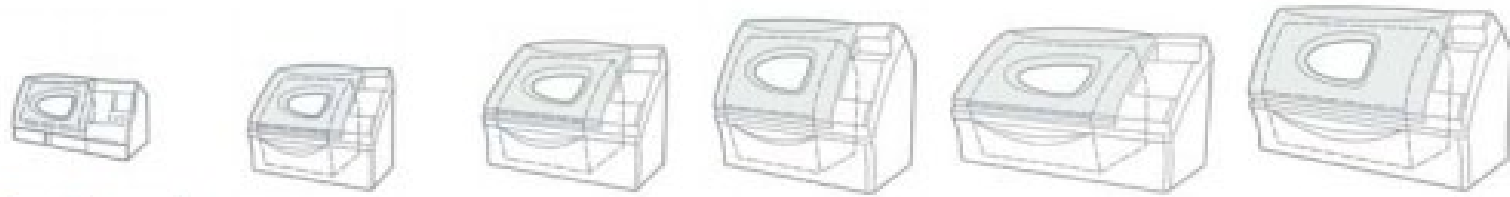
- Touch-screen, full color user control interface, using intuitive icons for ease of programming and use.
- RJ45 communications port for connection to a local area network (LAN) for logging and remote programming via a computer running optional Ascott software (ACC120).
- A real-time, user configurable 'clock' to enable different test samples to have their exposure time monitored separately, with alarms to warn when preset test times have been completed.
- Immersion heater housed in the base of chamber enables high humidity condensation conditions to be created, if required.



Premium 2000 Ltr
salt spray chamber



Specifications



STANDARD SALT SPRAY CHAMBERS		S120IS	S450IS	S1000IS	S1300IS	S2000IS	S2600IS
PREMIUM SALT SPRAY CHAMBERS		S120IP	S450IP	S1000IP	S1300IP	S2000IP	S2600IP
Chamber Capacity		120 Ltrs/4.2cu ft	450 Ltrs/15.8cu ft	1000 Ltrs/35.3cu ft	1300 Ltrs/45.9 cu.ft	2000 Ltrs/70.6cu ft	2600 Ltrs/91.8 cu.ft
Mounting Format		Bench top	Floor standing	Floor standing	Floor standing	Floor standing	Floor standing
Loading threshold		280mm/11"	800mm/31.5"	800mm/31.5"	800mm/31.5"	800mm/31.5"	800mm/31.5"
Chamber external dims, max	W	1315mm/51.8"	1660mm/65.4"	2025mm/80.0"	2025mm/80.0"	2885mm/113.6"	2885mm/113.6"
	D	680mm/26.8"	840mm/33.1"	1205mm/47.5"	1156mm/45.5"	1205mm/47.5"	1156mm/45.5"
	H	800mm/31.5"	1510mm/59.5"	1720mm/67.5"	1906mm/75.0"	1720mm/67.5"	1906mm/75.0"
Chamber internal dims, max	W	715mm/28.2"	1010mm/39.5"	1300mm/51.2"	1300mm/51.2"	2160mm/85.0"	2160mm/85.0"
	D	490mm/19.3"	640mm/25.0"	980mm/38.5"	980mm/38.5"	980mm/38.5"	980mm/38.5"
	H	490mm/19.3"	1140mm/45.0"	1320mm/52.0"	1528mm/60.2"	1320mm/52.0"	1528mm/60.2"
Salt solution reservoir ext. dims	W	n/a (internal)	460mm/18.1"	560mm/22.0"	560mm/22.0"	560mm/22.0"	560mm/22.0"
	D	n/a (internal)	620mm/24.5"	620mm/24.5"	620mm/24.5"	620mm/24.5"	620mm/24.5"
	H	n/a (internal)	675mm/26.6"	675mm/26.6"	675mm/26.6"	675mm/26.6"	675mm/26.6"
Salt solution reservoir capacity		40 Ltrs/10.5 USgal	80 Ltrs/21 USgal	115 Ltrs/30.4 USgal	115 Ltrs/30.4 US gal	115 Ltrs/30.4 USgal	115 Ltrs/30.4 US gal
Removable slotted sample racks see also optional accessories ACC17/ACC18)		4 racks each with 23 angled slots	6 racks each with 28 angled slots	8 racks each with 46 angled slots	8 racks each with 46 angled slots	16 racks each with 46 angled slots	16 racks each with 46 angled slots
Chamber construction		Glass reinforced plastic, Polypropylene & PVC parts					
Colour		9 standard colours to choose from					
Electricity supply		Voltage (VAC) and frequency (Hz) dependant on country/region of installation					
- Standard models		1 phase	1 phase	1 phase		1 phase	1 phase
- Premium models		1 phase	1 phase	1 phase		3 phase	3 phase
Water		Deionized/distilled for topping up air saturator and making salt solution. Air saturator requires a continuous water connection 0.5–6.0 bar (7.3–87 psi). If air saturator is topped up manually option ACC66 must be ordered					
Air		Clean dry & oil free, 4.0 to 6.0 bar (58–87psi) with 240 Ltrs (8.5cu.ft) per minute flow					
Exhaust		3m (10ft) exhaust pipe is provided which should be terminated outside building					
Drain		3m (10ft) drain pipe provided which should be terminated into floor level drain					
Operating environment conditions		+18 to +23°C (+64 to 73°F), 85% max RH (non condensing) ambient					