

FOGmaster^{salt} *In-focus*



Introduction:

The Sheen FOGmaster^{salt} range of Salt Spray Cabinets are designed to give complete flexibility in the analysis of corrosion resistance for a wide variety of sample types.

By incorporating the versatility of both Prohesion® and Condensation Humidity test methods, these systems give the user a powerful tool in the analysis of corrosion resistance for a wide variety of sample types.

With industry's demands for more stringent testing solutions the FOGmaster^{salt} range gives complete compliance to all major national standards including ISO, ASTM and DIN.

Features of the Salt Spray Corrosion cabinets:

FOGmaster^{salt} models:

- User programmable interface:
2 Line, 16 character alphanumeric display
- Chamber viewing window
- Sample racks
- Hours Counter, to monitor and display the time elapsed within a specified test cycle
- Automatic & manual filling of air saturator
- Air purge facility – Ensures salt fog is quickly and safely exhausted from the cabinet interior
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FOGmaster^{salt pro} models:

- All features as outlined for the salt spray introductory models
- Touch screen, menu driven controller is provided as standard
- Fully programmable for automatic temperature cycling
- Condensation humidity test facility
- Humidity Probe for displaying %RH
- Pneumatically Actuated roof



Additional Methods and applications for the FOGmaster^{salt pro} Cabinets:

Intermittent test.

This test comprises of an automatic cycle of salt spray followed by a high humidity dwell at a single elevated isothermal temperature.

Prohesion[®] test.

This test comprises of an automatic cycle of salt spray at ambient temperature, followed by air drying at an elevated temperature.

Condensation Humidity test.

This test requires an elevated isothermal temperature and high humidity (95% - 100% RH).



Technical Specifications:

Model Reference	FOGmaster ^{salt & salt pro}	FOGmaster ^{salt & salt pro}	FOGmaster ^{salt & salt pro}
Siting Requirements	Bench or floor standing	Floor standing	Floor standing
Nominal Capacity	120 Litres	450 Litres	1000 Litres
External cabinet width	1350mm / 53.2"	1525mm / 60.0"	2125mm / 83.7"
External cabinet depth	680mm / 26.8"	900mm / 35.4"	1200mm / 47.2"
External cabinet height	780mm / 30.7"	1055mm / 41.5"	1396mm / 55.0"
Internal cabinet width	715mm / 28.2"	800mm / 31.5"	1250mm / 49.2"
Internal cabinet depth	490mm / 19.3"	645mm / 25.4"	935mm / 36.8"
Internal cabinet height	485mm / 19.1"	835mm / 32.9"	1175mm / 46.3"
Salt solution reservoir capacity	40 Litres	100 Litres	100 Litres
Removable slotted sample racks	4 racks each with 25 angled slots	6 racks each with 32 angled slots	8 racks each with 47 angled slots
Cabinet Temperature Range	Adjustable, ambient to +50°C	Adjustable, ambient to +50°C	Adjustable, ambient to +50°C
Air Saturator Temperature Range	Adjustable, ambient to +63°C	Adjustable, ambient to +63°C	Adjustable, ambient to +63°C
Cabinet Humidity Range	Fixed at 95% to 100% RH	Fixed at 95% to 100% RH	Fixed at 95% to 100% RH
Salt Fog Fallout Rates	Adjustable from 0.5 to 3.0ml / 80cm ² / hour	Adjustable from 0.5 to 3.0ml / 80cm ² / hour	Adjustable from 0.5 to 3.0ml / 80cm ² / hour
Approximate net weight	90kgs / 198lbs	180kgs / 397lbs	395kgs / 871lbs

Accessories:

Salt Solution Reservoir (FM101)

Additional free standing 120 Litre capacity reservoir

Chart Recorder (FM102)

Single pen, strip chart recorder for continuously recording the cabinet temperature.

Independent PT100 (FM103)

Provides auxiliary temperature recordings.

Entry Port (FM104)

35mm (1.4") diameter, seal-able cabinet entry port. Allows connection to external monitoring equipment .

Trolley (FM106)

Allows this cabinet to be switched from a bench standing to floor standing unit. *NOTE: 120 Litre models only.*

Internal illumination (FM107)

Illuminates the interior of the cabinet.

Spares Kit (FM109)

Comprises of 1 x solenoid valve, 5 x salt solution filters, 1m of peristaltic pump tube, 1 x indicator.

Reinforced False Floor (FM110)

For supporting large / heavy test samples. 120 Litre models only

Reinforced False Floor (FM111)

For supporting large / heavy test samples. 450 Litre models only

Reinforced False Floor (FM112) For supporting large / heavy test samples. 1000 Litre models only

Chart Recorder (FM114) Two pen strip chart recorder, for continuously recording the cabinet temperature and humidity. *NOTE: FOGmaster^{salt pro} units only*

External Service Utilities:

Power Requirements Single phase 220 – 240VAC, 50Hz, switched electrical supply, rated to 13 Amps for 120L & 450L models, & 16 Amps for 1000L models.

Water De-ionised or distilled for topping up the cabinet humidity system. Connection to a continuous de-ionised / distilled water supply pressurised to within the limits 0.5 – 6.0 bar (7.3 – 87 psi) is recommended.

Compressed Air A clean, dry and oil free compressed air supply, pressurised between 1.4 to 6.0 bar (20 to 87 psi)

Exhaust An exhaust vent is required to an outside location to ventilate excess salt fog from the cabinet.

Drain Floor level drain is required to discharge salt fog condensate.

General

This equipment is designed for internal use only, in an environment controlled to within the following limits.

Ambient Temperature: +5 to +25°C (+41° to +77°F) (no icing)

Ambient Humidity: 85% RH maximum (no condensation)

Note: that the actual minimum operating temperature of the equipment will vary upon the specific ambient temperature of the environment in which it is located.

Ordering Information:

		Part Number
Ref: FOGmaster ^{salt}	120 Litre capacity	FMS120
Ref: FOGmaster ^{salt pro}	120 Litre capacity	FMSP120
Ref: FOGmaster ^{salt}	450 Litre capacity	FMS450
Ref: FOGmaster ^{salt pro}	450 Litre capacity	FMSP450
Ref: FOGmaster ^{salt}	1000 Litre capacity	FMS1000
Ref: FOGmaster ^{salt pro}	1000 Litre capacity	FMSP1000

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