

FOGmaster^{cyclic} *In-focus*



Introduction:

The Sheen FOGmaster^{cyclic} range of Cyclic Corrosion Test (CCT) Cabinets are designed to give complete flexibility in the simulation of real life weathering conditions.

By incorporating the versatility of Multi-environment cyclic corrosion testing 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^{cyclic} gives complete compliance to all major national standards including ISO, ASTM and DIN.

Quality Testing Solutions for the Coatings Industry - Worldwide

Standard Features on FOGmaster^{cyclic} Corrosion cabinets:

- Touch screen programmable interface
- Continuous salt spray testing
- Modified salt spray testing e.g.: Prohesion[®]
- Condensation Humidity testing
- Multi-environment cyclic corrosion testing
- Temperature controlled warm air-drying
- Rapid heating, Cooling and Drying
- Chamber viewing window
- Sample racks
- Automatic & manual filling of air saturator
- Hours Counter, to monitor and display the time elapsed within a specified test cycle
- Air purge facility to ensure salt fog is quickly & safely vented from the cabinet interior
- Pneumatically actuated roof
- Humidity probe for displaying %RH



Technical Specifications:

Model Reference	FOGmaster ^{cyclic}	FOGmaster ^{cyclic}	FOGmaster ^{cyclic}
	120 Litre capacity	450 Litre capacity	1000 Litre capacity
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	ambient to +60°C	ambient to +60°C	ambient to +60°C
Air Saturator Temperature Range	ambient to +63°C	ambient to +63°C	ambient to +63°C
Cabinet Humidity Range	Up to 100% RH	Up to 100% RH	Up to 100% RH
Salt Fog Fallout Rates	0.5 to 3.0ml / 80cm ² / hour	0.5 to 3.0ml / 80cm ² / hour	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. <i>NOTE: This option is not required if FM113 is ordered</i>
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 converted from a bench standing to floor standing unit. Note: <i>120 Litre models only.</i>
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.
Controlled Humidity (FM113)	Enables the humidity to be set and controlled at levels lower than 100% RH. Actual humidity levels achieved are dependant upon cabinet temperature.

Chart Recorder (FM114) Two pen strip chart recorder, coupled to a temperature and humidity sensor, for continuously recording the cabinet temperature and humidity.

Wall wash down facility (FM115) Required by some CCT programs for washing down the cabinet walls automatically with water, following salt spray tests.

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.
NOTE: FM113 Requires three phase power supply.

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).

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 +30°C (+41° to +86°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:

Ref: FOGmaster^{cyclic} 120 Litre capacity

Ref: FOGmaster^{cyclic} 450 Litre capacity

Ref: FOGmaster^{cyclic} 1000 Litre capacity

Part Number

FMC120

FMC450

FMC1000

Prohesion[®] is a registered trademark of Croda Mebon

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