



Product Data Sheet

SAL 1000-FL (+60°C)

Relevant Test Standards

Salt Spray Test:

- DIN EN ISO 9227
- DIN 50942, DIN 53167
- ASTM B 117-73, ASTM B 287-74
- ASTM B 368-68
- ISO 7253 ISO 3678
- BS 1224, BS 2011, BS3900 F4
- BS 3900 F12
- BS 5466 Part I, BS 5466 Parts 2 + 3
- NFX 41002,
- AS 21331 Section 3.1
- SIS 1841190
- JIS Z 2371
- IEC 60028-2-11 KA



Product Description

This compact and easy to operate front loading corrosion test cabinet is designed for conducting salt spray tests pursuant to the most common corrosion test such as:

- DIN EN ISO 9227
- IEC 60028-2-11 KA

With this corrosion test cabinet it is also possible to conduct the Constant Humidity (CH) type of the standard water condensation test according to ISO 6270-2 CH by simply manually refilling the test chamber with demineralized water. The compressed air supply and the solution pump should be also switched off simply by using manual controls on the control panel.

Order Information

Basic model:

- SAL 1000-FL (V.715.062.020)

Other versions:

- SAL 1000-FL-I ST (V.715.262.320)

Options:

- VA.715.300.020 chamber cleaning

Sales & Support:

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Specification subject to changes
Pictures might differ from original

Customer Benefits

- Cost effective solution for basic salt spray (SAL)
- Compact front loading (cabinet) design
- The VLM technology allows the best possible reproducibility of the temperature conditions
- The test chamber with the bottom made of steel is more robust and less susceptible for damages compared to the competitive products made of glass reinforced plastic
- Lower cost of ownership compared to the competitive products where the test chamber is made of glass reinforced plastic (shorter test periods, better energy efficiency, easier for service and maintenance, longer life cycle, more resistive to mechanical damages)
- User friendly control system with preconfigured test parameters
- High stability of temperature control due to advanced software control algorithms and fast heat transfer through the steel casing of the chamber
- Ability to conduct Constant Humidity (CH) type of the standard water condensation test (6270-2 CH) with the same test cabinet
- Test cabinet is made of recyclable materials



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Figure 1 Jumo dTRON controller

Accessories included:

- 7 rods for supporting test specimen
- 2 m exhaust hose \varnothing 75 mm
- 2 m drain water hose \varnothing 32 mm
- 1 female connector for compressed air hose (size no. 5)



Figure 2 Option: System for specimen treatment

Technical Specifications

Capacity	ca. 1000 L
Inner test chamber dimensions WxDxH1/H2	ca. 1400 x 800 x 800 / 1020 mm
Outer dimensions of the casing (overall) WxDxH	ca. 2160 x 1000 x 2070 mm
Required power supply	230 V, 50/60 Hz, 3500 W
Materials used	The walls of the chamber are made of Polypropylene while the bottom is made of stainless steel and coated with ECTFE. The walls have milled openings for supporting rods
Heating	Flat Micanite heaters under the bottom of the chamber for fast and uniform heat transfer
Sensors	- 1x corrosion resistant and highly sensitive temperature sensor
Temperature stability	$\pm 0,2^{\circ}\text{C}$
Aeration	NA
Timer	Two channel timer
Weight	480 kg
Communication	RS 232 interface (optional)
Other specification	
Purity demineralized water / filling volume / fitting	< 5 $\mu\text{S}/\text{cm}$ / ca. 3,5 L/day / $\frac{3}{4}$ " outer diameter Option: Automatic water refill
Tap water (connection type)	Always via Ion-exchanging cartridge ($\frac{3}{4}$ " outer diameter)
Compressed Air	6-8 bar (connection nipple size 5)
Waste water, drain	Pipe fittings (spiral hose ID 32 mm)
Exhaust pipe outer diameter	Pipe fitting (75 mm external diameter)
Number of supporting rods / max load	7 stainless steel rods coated with plastic / 30 kg each

Process control

- User friendly, microprocessor based controller (Figure 1)
- Programmable timer function
- **Option:** VisiCORR[®] software for visualisation of test trends, only in combination with RS 232 (option)
- **Option:** the SAL 1000-FL-I ST version (with specimen treatment) is equipped with the Jumo IMAGO controller
- Restricted access for authorised operators (security code)

Operating system salt spray test (SAL) according to ISO 9227

- Electronically controlled self-venting membrane pump with electronic flow check (flow quantity and bubble detector)
- Hi-end nozzle for two fluids (test solution and compressed air) with adjustable air cap made of polycarbonate with PEEK
- Transparent humidifier of Duran glass with easily replaceable PE-sintered filters for fine distribution of compressed air or full saturation with moisture and automatic water refill
- Manually activated air purge in order to blow out the salt mist from the test area before opening the lid

Options:

- **CCL:** Chamber cleaning with rotating nozzle after the salt spray test is finished
- **ST:** The specimen treatment option is required when test procedure prescribes the corrosion process to be stopped after the salt spray test is finished. It is done by flushing the specimens with demineralized water and drying them with warm air. A number of nozzles are used to spray the demineralized water directly upon specimens and removing the remnants of the salt crust. In addition a ventilation system with air heater is added to enable fast drying of the specimens.