



# 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



### Applicable for the following salt spray tests

**Salt Spray Tests SAL, NSS, CASS**

### Order Information

#### Basic model:

**SAL 1000-FL**

#### Article numbers version:

**V.715.062.020**

#### Sales & Support:

 **+49 5205 97963 0**

Monday to Friday  
8:00 am – 17:00 pm

VLM Labortechnik GmbH  
Heideblümchenweg 50  
33689 Bielefeld  
[info@vlmgmbh.de](mailto:info@vlmgmbh.de)

### Product Description

**These compact and easy to operate front loading cabinet is designed for conducting salt spray tests pursuant to the most common international corrosion tests such as DIN EN ISO 9227 and ASTM D2247.**

### 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

## SAL 1000-FL (+60°C)



Figure 1 Jumo controller

### Accessories included:

- ✚ 5 rods for supporting test specimen
- ✚ 2 m exhaust hose  $\varnothing$  50 mm
- ✚ 2 m drain water hose  $\varnothing$  18 mm
- ✚ 1 female connector for compressed air hose (size no. 5)

Technical Specifications	
Capacity	ca. 1000 L
Inner test chamber dimensions W/D/H1/H2	ca. 1400 x 605 x 920 / 733 mm
Outer dimensions of the casing (overall) W/D/H	ca. 2162 x 922 x 2013 mm
Required power supply	400 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	$\pm 0,2$ C°
Aeration	NA
Timer	Two channel timer
Weight	230 kg
Communication	RS 232 interface (optional)
Other specification	
Purity demineralized water / filling volume / fitting	< 20 $\mu$ S/cm / ca. 3,5 L / 3/4" outer diameter Option: Automatic water refill
Tap water (connection type)	Always via Ion-exchanging cartridge (3/4" outer diameter)
Compressed Air	6-8 bar (connection nipple size 5)
Waste water, drain	Pipe fittings (spiral hose ID 18mm)
Exhaust pipe outer diameter	Pipe fitting (50 mm external diameter)
Number of supporting rods / max load	5 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)
- ✚ 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