



# Product Data Sheet

## SAL 1000-TL (+55°C)

### Applicable 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
- ASTM-G 85
- ISO 7253 ISO 3678
- BS 1224, BS 2011, BS 3900 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



### Legend

SAL – Salt spray test

### Product Description

This compact and easy to operate top loading corrosion test chest 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 test chest 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 manually simply by using controls on the control panel.

### Order Information

#### Basic model:

SAL 1000-TL

#### Article numbers:

- V.715.065.050 (SAL)

#### Option:

- V.715.300.050 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 tests (SAL)
- Compact top loading (chest) 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 total cost of ownership compared to 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, recyclable)
- User friendly control system with preconfigured test parameters
- Ability to conduct ISO 6270-2 CH type of water condensation test (High Humidity)
- High stability of temperature control due to advanced software control algorithms and fast heat transfer through the steel bottom of the test chamber
- Test chest is made of recyclable materials



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Figure 1 JUMO controller

### The following accessories are included:

- 6 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)

### Technical Specifications

<b>Capacity</b>	ca. 1000 L
<b>Inner test chamber dimensions WxDxH1/H2</b>	ca. 1425 x 800 x 690 / 1005 mm
<b>Outer dimensions of the casing (overall) WxDxH</b>	ca. 1895 x 890 x 1265 mm
<b>Required power supply</b>	230V, 50/60Hz, 2500W
<b>Materials used</b>	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
<b>Heating</b>	Flat Micanite heaters under the bottom of the chamber for fast and uniform heat transfer
<b>Sensors</b>	1x corrosion resistant and highly sensitive temperature sensor
<b>Temperature stability</b>	$\pm 0,5^{\circ}\text{C}$
<b>Chamber washing</b>	Optional
<b>Test programming</b>	yes
<b>Weight</b>	250 kg
<b>Communication</b>	RS 232 interface (optional)
<b>Other specification</b>	
<b>Purity demineralized water / fitting</b>	< 5 $\mu\text{S}/\text{cm}$ / $\frac{3}{4}$ " outer diameter Option: Automatic water refill
<b>Tap water (connection type)</b>	Always via Ion-exchanging cartridge ( $\frac{3}{4}$ " outer diameter)
<b>Compressed Air</b>	6-8 bar (connection nipple size 5)
<b>Waste water, drain</b>	Pipe fittings (spiral hose ID 32 mm)
<b>Exhaust pipe outer diameter</b>	Pipe fitting (75 mm external diameter)
<b>Supporting rods / max load</b>	Stainless steel coated with plastic / 30 kg load 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 membrane pump (flow monitor)
- 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

### Notes