

Conforms to the latest version of ISO 9227:2022.

Salt Spray Test Instrument STP-100

The TM Mist Saving Dispersion Tower sprays a salt solution uniformly into the test chamber to test the corrosion resistance (rust resistance) of metal materials and surface treatments.

TM is a symbol of Suga Test Instruments' proprietary technology



This is image only. Appearance subject to change. In addition, the control panel is a special specification with additional options.

01

Uniform temperature distribution & Stable salt concentration/pH

Adoption of Dual Heating System® & Air barrier board

02

Large capacity for test specimens

Number of specimens : 72 pcs.
Body size is the same as the conventional model

03

Easy maintenance structure

Improved workability such as solution replenishment and cleaning

Conforming to the latest ISO 9227:2022

Complies quickly with the latest international standards. It is useful for quality control and acceptance inspection based on the latest standards.

Uniform temperature distribution and stable salt concentration and pH

Fluctuations in the salt concentration and pH of the solution in the solution tank are suppressed by the air barrier board. A new temperature control system "Dual Heating System®" achieves uniform temperature, spray distribution, and stable salt concentration/pH.

Dual Heating System® is Suga Test Instruments Co.,Ltd.'s trade mark

Large capacity for test specimens

Number of specimens is 72 pcs. Compared to the conventional model (STP-90V-6), 8 more test pieces can be installed. With this compact size, it can be installed in the same space as conventional models (STP-90V-5 and earlier).

Easy maintenance structure

The solution tank and air saturator are integrated on the right side to improve workability such as solution replenishment and cleaning.

Established traceability with international measurement standards

ISO/IEC 17025^{※1} accredited calibration certification can be issued for spray pressure gauge, temperature sensor, air saturator sensor.

※1 ISO/IEC 17025 General requirements for the competence of testing and calibration laboratories

Specification

	STP-100
Temperature	35 ± 1°C
Number of specimens	72 pcs. (150 × 70 × t1mm, when the distance 3mm between left/right side of specimens)
Mounting angle	15° or 20° (from perpendicular)
Test chamber angle	Approx. W 100 × D 60 × H 40cm
Specimen rack withstanding load	7.0 kgf
External dimension	Approx. W 159 × D 95 × H 144cm(with lid open H 170cm)
Operating weight	Approx. 210kg
Applied standards	ISO 9227, JIS Z 2371, IEC 60068-2-11, JIS C 60068-2-11, JIS K 5600-7-1, ASTM B117 ^{※2} etc.

※2 Required option

Option

- ◆ **Additional test report**
(Spray distribution, Center(2)+Corner(4) for ISO 9227:2022)
- ◆ **Additional test report**
(Spray distribution, Customer's request for ISO 9227:2022)
- ◆ Additional mist collector (4pcs./set)
- ◆ **ASTM B117 conformity kit**
(Angle of test specimens 30°, Change position of mist collector, Automatic water supply for air saturator)
- ◆ **MIL-DTL-5541F conformity kit**
(Specimens rack for 254 x 76.2mm specimen, Angle of test specimens 6°, Change position of mist collector, Automatic water supply for air saturator)
- ◆ Withstand load of duck load/ Withstand load of specimen rack
- ◆ Net(resin) sample stand (for small specimens)
- ◆ Change position of mist dispersion tower
- ◆ Change position of mist collector
- ◆ Setting operating time
- ◆ Setting spray/stop spray
- ◆ Automatic water supply for air saturator
- ◆ Access port(φ 50mm)
- ◆ Test chamber air purge time saving
- ◆ Spray gun for cleaning test chamber
- ◆ Automatic drain for air pressure reducing valve
- ◆ Solution tank SP-1:Capacity Approx. 30L with air barrier board
- ◆ Solution supplier SS-2:Approx. 100L with air barrier board
- ◆ Exhaust treatment EF-1R
- ◆ SUGA Super Salt
- ◆ Corrosion reference test specimen (ISO 3574 CR4)
- ◆ ISO/IEC 17025 calibration (including certificate)
Platinum resistance thermometer (temperature sensor for chamber/air saturator), spray pressure gauge



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CASS Test Instrument CAP-100

The TM spray saving prevention spray dispersion tower sprays CASS liquid uniformly in the test chamber to test the corrosion resistance (rust resistance) of metal materials and surface treatments.

TM is a symbol of Suga Test Instruments' proprietary technology



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01

**Uniform temperature
distribution & Stable
salt concentration/pH**

Adoption of Dual Heating
System® & Air barrier board

02

**Large capacity
for test specimens**

Number of specimens : 72 pcs.
Body size is the same as the
conventional model

03

**Easy maintenance
structure**

Improved workability such as
solution replenishment and
cleaning

Conforming to the latest ISO 9227:2022

Complies quickly with the latest international standards. It is useful for quality control and acceptance inspection based on the latest standards.

Uniform temperature distribution and stable salt concentration and pH

Fluctuations in the salt concentration and pH of the solution in the solution tank are suppressed by the air barrier board. A new temperature control system "Dual Heating System®" achieves uniform temperature, spray distribution, and stable salt concentration/pH.

Dual Heating System® is Suga Test Instruments Co.,Ltd.'s trade mark

Large capacity for test specimens

Number of specimens is 72 pcs. Compared to the conventional model (CAP-90V-6), 12 more test pieces can be installed. With this compact size, it can be installed in the same space as conventional models (CAP-90V-5 and earlier).

Easy maintenance structure

The solution tank and air saturator are integrated on the right side to improve workability such as solution replenishment and cleaning.

Established traceability with international measurement standards

ISO/IEC 17025^{※1} accredited calibration certification can be issued for spray pressure gauge, temperature sensor, air saturator sensor.

※ 1 ISO/IEC 17025 General requirements for the competence of testing and calibration laboratories

Specification

	CAP-100
Temperature	50 ± 1°C
Number of specimens	72 pcs. (150 × 70 × t1mm, when the distance 3mm between left/right side of specimens)
Mounting angle	15° or 20° (from perpendicular)
Test chamber angle	Approx. W 100 × D 60 × H 40cm
Specimen rack withstanding load	7.0 kgf
External dimension	Approx. W 159 × D 95 × H 144cm(with lid open H 170cm)
Operating weight	Approx. 210kg
Applied standards	ISO 9227, JIS Z 2371, JIS H 8502 etc.

Option

◆ Additional test report

(Spray distribution, Center(2)+Corner(4) for ISO 9227:2022)

◆ Additional test report

(Spray distribution, Customer's request for ISO 9227:2022)

- ◆ Additional mist collector (4pcs./set)
- ◆ Withstand load of duck load/ Withstand load of specimen rack
- ◆ Net(resin) sample stand (for small specimens)
- ◆ Change position of mist dispersion tower
- ◆ Setting operating time
- ◆ Setting spray/stop spray
- ◆ Automatic water supply for air saturator
- ◆ Access port(φ 50mm)

◆ Test chamber air purge time saving

- ◆ Spray gun for cleaning test chamber
- ◆ Automatic drain for air pressure reducing valve
- ◆ Solution tank SP-1:Capacity Approx. 30L with air barrier board
- ◆ Solution supplier SS-2:Approx. 100L with air barrier board
- ◆ Exhaust treatment EF-1R
- ◆ SUGA Super Salt
- ◆ Corrosion reference test specimen (ISO 3574 CR4)
- ◆ ISO/IEC 17025 calibration (including certificate)
Platinum resistance thermometer (temperature sensor for chamber/air saturator), spray pressure gauge



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