

Data sheet

# SaltEvent

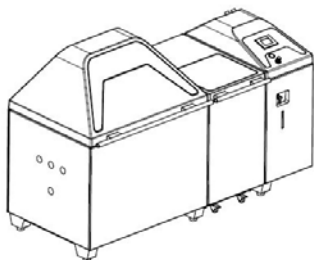


Image similar contains options

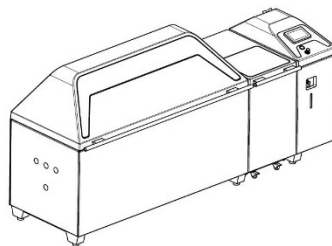
## STANDARD TYPES OF CORROSION TEST UNITS

The design variants of our standard types of SaltEvent corrosion test units differ fundamentally in terms of size (test space volumes and dimensions) and type of testing: Corrosion, corrosion alternating, recirculating air corrosion alternating and climate alternating corrosion. In addition, there are options available for selected design versions. You will find these options from *page 8*.

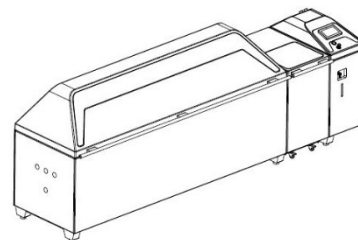
**SaltEvent SC and SC/KWT 500**



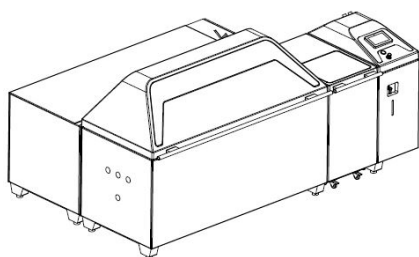
**SaltEvent SC and SC/KWT 1000**



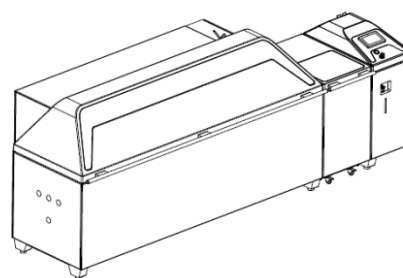
**SaltEvent SC and SC/KWT 1500**



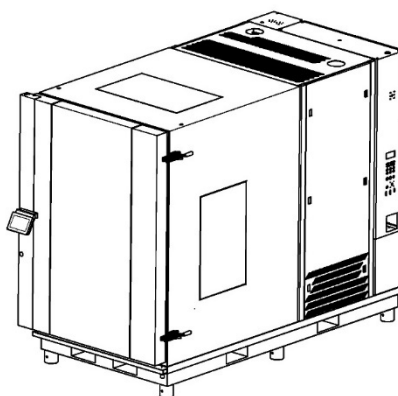
**SaltEvent SC/UKWT 1000**



**SaltEvent SC/UKWT 1500**

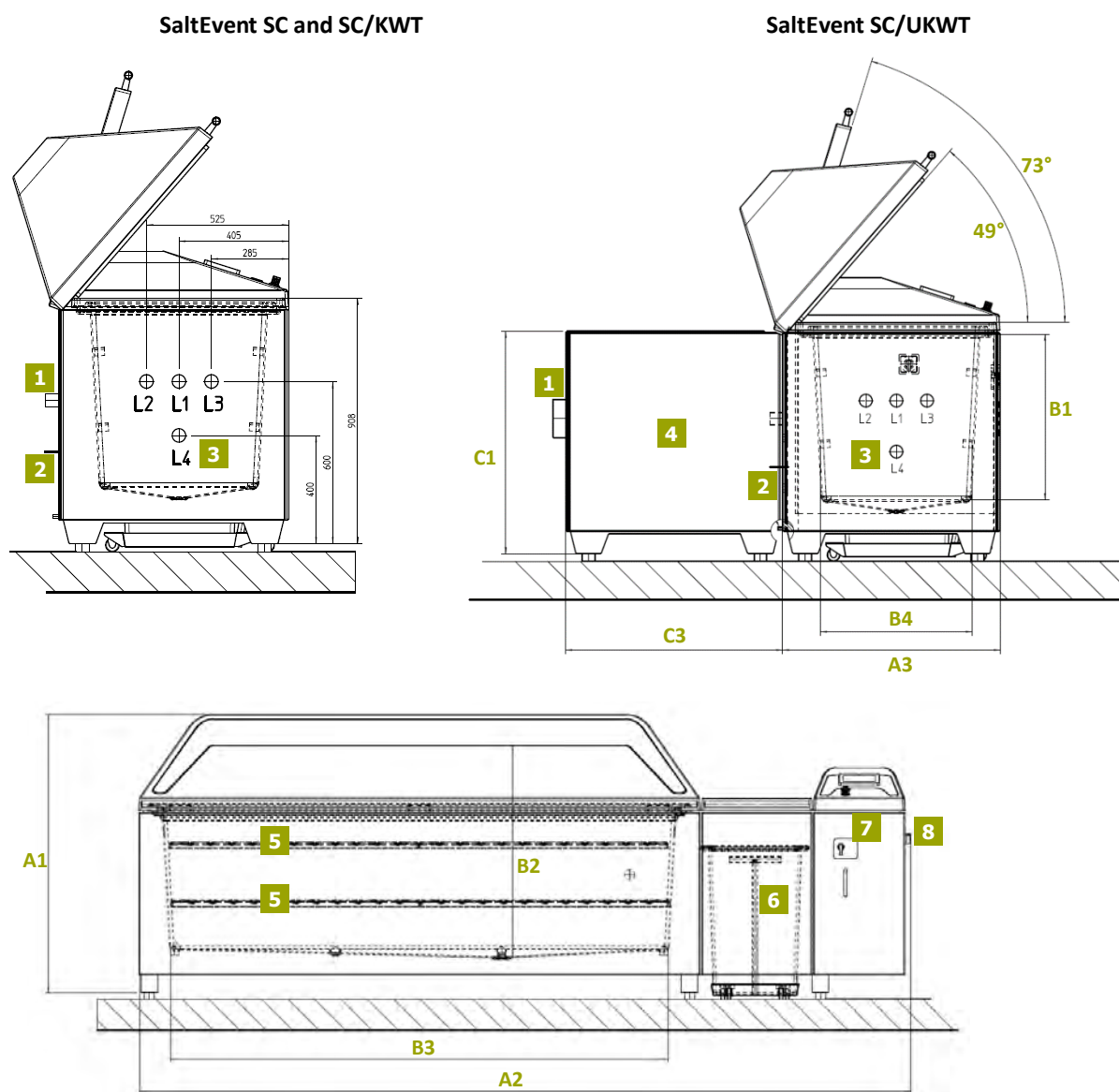


**SaltEvent IU/H test chambers**



TYPES OF TESTING/MODES OF OPERATION	SC 500 SC 1000 SC 1500	SC/KWT 500 SC/KWT 1000 SC/KWT 1500	SC/UKWT 1000 SC/UKWT 1500	1000/15/IU/H 2400/15/IU/H
Salt spray test	✓	✓	✓	✓
Condensed water test	✓	✓	✓	✓
Climate test	–	–	✓	✓
Ventilating with compressed air	–	✓	✓	✓
Alternating test	–	✓	✓	✓

## Layout drawing | SC test chests



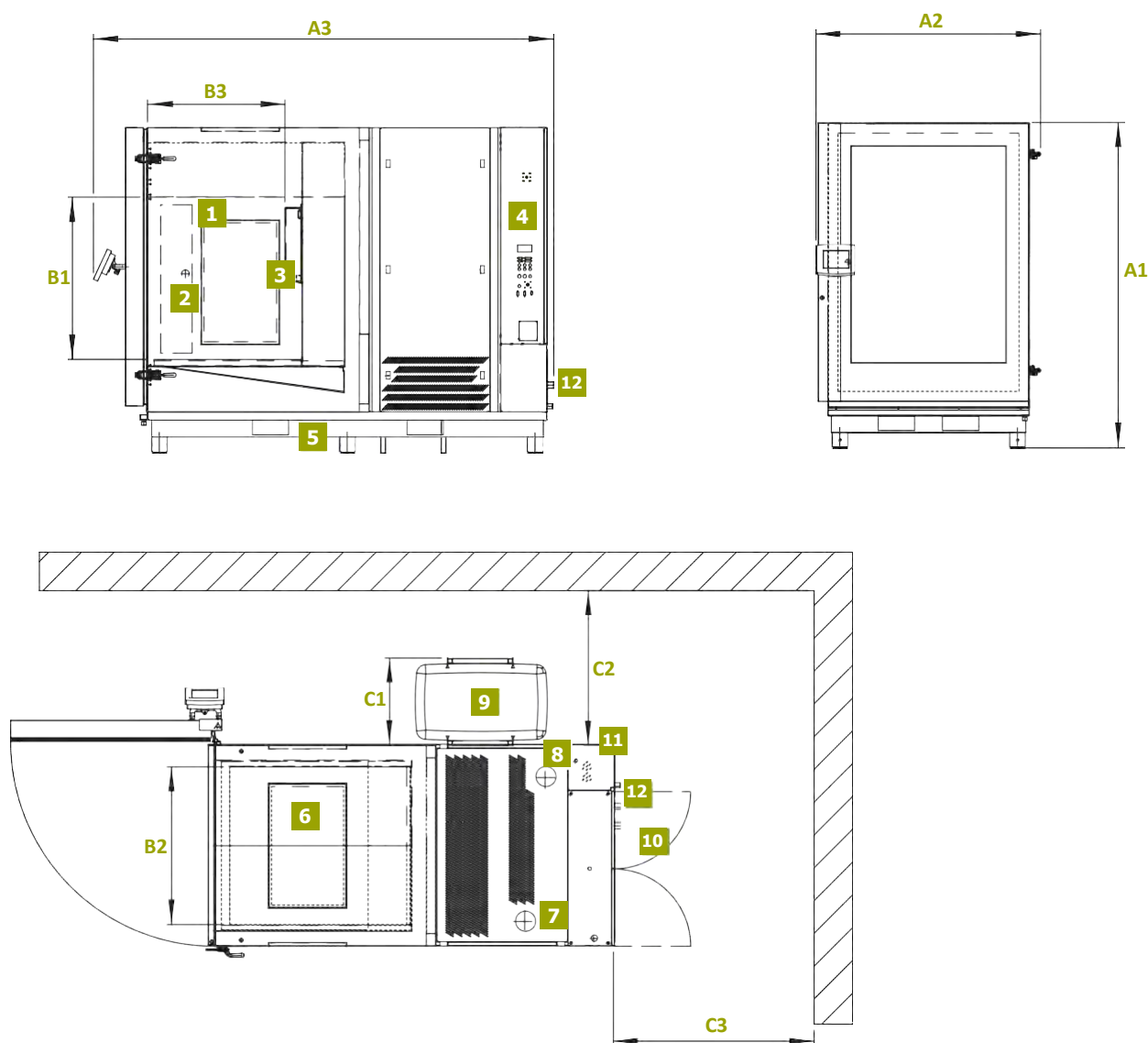
- |   |   |
|---|---|
| <b>1</b> Connection for exhaust air                   | <b>5</b> Support beams                              |
| <b>2</b> Connections for current, air and water       | <b>6</b> Supply tank for saline solution            |
| <b>3</b> Space for optional access ports (50, 100 mm) | <b>7</b> Pressure controller and pressure indicator |
| <b>4</b> Air conditioning equipment                   | <b>8</b> Main unit switch, lockable                 |

	A1	A2	A3	B1	B2	B3	B4	C1	C2	C3
	Test system overall <sup>1)</sup>			Test space				Air conditioning equipment <sup>2)</sup>		
SaltEvent	Dimensions in mm									
SC 500 SC/KWT 500	1370	2100	980	720	1140	875	645	–	–	–
SC 1000 SC/KWT 1000		2925				1670		–	–	–
SC/UKWT 1000			1880				910	2120	900	
SC 1500		3710	980			2460	640	–	–	–
SC/KWT 1500								–	–	–
SC/UKWT 1500			1880					910	2120	900

1) Overall exterior dimensions in setup state, for SC/UKWT 1000 without air conditioning equipment; tolerances ±10 mm

2) Only for SC/UKWT 1000

## Layout drawing | IU/H test chambers



- |  |  |
|--|--|
| <b>1</b> Test space  | <b>7</b> Exhaust air                     |
| <b>2</b> Position area for access ports DN50 or DN100                      | <b>8</b> Water supply                    |
| <b>3</b> Air duct wall with spray nozzles (SC 1000/15-60 IU) <sup>3)</sup> | <b>9</b> Supply tank for saline solution |
| <b>4</b> Master switch panel   | <b>9</b> Control unit service door       |
| <b>5</b> Vibration-absorbing adjustable feet                               | <b>11</b> Rotameter                      |
| <b>6</b> Inspection openings for heaters                                   | <b>12</b> Supply connections             |

	A1	A2	A3	B1	B2	B3	C1	C2	C3
	Test system overall <sup>1)</sup>			Test space <sup>2)</sup>			Saline tank and wall clearances		
SaltEvent	Dimensions in mm								
1000/15/IU/H	2105	1450	2980	1050	1020	890	560	min. 1000	min. 1300
2400/15/IU/H <sup>3)</sup>	2710	1530	4140	1400	1090	1500	560	min. 1100	min. 1120

1) Overall exterior dimensions in setup state, without saline tank; tolerances  $\pm 10$  mm

2) Useful dimensions

3) On 2400/15/IU/H the spray nozzles are on the right and left on the side walls.

## TECHNICAL DATA | SC test chests

				SC 500	SC 1000	SC 1500	
DIMENSIONS, LOAD, WEIGHT							
Test space volume			approx.	Liter	504	1028	1450
Test space dimensions <sup>1)</sup>		Height with hood		mm	1140		
		Height without hood		mm	720		
		Width		mm	875	1670	2460
		Width up to spraying channel		mm	765	1560	2360
		Depth		mm	645		640
Exterior dimensions overall system <sup>1)2)</sup>			Height	mm	1370		
			Width	mm	2100	2925	3710
			Depth	mm	980		
Wall clearance rear			at least	mm	500		
Wall clearance side			at least	mm	900 <sup>6)</sup>		
Load on the floor <sup>7)</sup>			max.	kg	100	150	
Load per support bar			max.	kg	2.5		
Total weight			approx.	kg	300	400	495
PERFORMANCE DATA							
Temperature range		Salt spray test		°C	5 K above ambient temperature up to +50		
		Condensed water test		°C	5 K above ambient temperature up to +42		
Constancy of temperature, over time <sup>8)</sup>				K	±1	±1 <sup>10)</sup>	
Factory calibration		Salt spray test		°C	+35		
Test space temperature <sup>21)</sup>		Condensed water test		°C	+40		
Factory calibration Humidifier temperature, compressed air humidifier <sup>21)</sup>				°C	+49		
CONSUMPTION AND CONNECTION DATA							
Water consumption		Salt spray test <sup>18)</sup>		l/h	0.4		
		Condensed water test		l	18	38	27
Compressed air consumption <sup>19)</sup>		Salt spray test		m3/h	1.4		
Sound pressure level <sup>17)</sup>		Salt spray test		dB(A)	63		60
		Condensed water test		dB(A)	67		
Electrical connection					230 V, 1 PH, 50 Hz		400 V, 3/N/PE,50 Hz
Connected load			max.	kVA	2	2.6	4.8
On-site back-up fuse <sup>20)</sup>				A	16		

## TECHNICAL DATA | SC/KWT test chests

				SC/KWT 500	SC/KWT 1000	SC/KWT 1500
DIMENSIONS, LOAD, WEIGHT						
Test space volume		approx.	Liter	504	1028	1450
Test space dimensions <sup>1)</sup>	Height with hood		mm	1140		
	Height without hood		mm	720		
	Width		mm	875	1670	2460
	Width up to spraying channel		mm	765	1560	2360
	Depth		mm	645		640
Exterior dimensions overall system <sup>1)2)</sup>		Height	mm	1370		
		Width	mm	2100	2925	3710
		Depth	mm	980		
Wall clearance rear		at least	mm	500		
Wall clearance side		at least	mm	900 <sup>6)</sup>		
Load on the floor <sup>7)</sup>		max.	kg	100	150	
Load per support bar		max.	kg	2.5		
Total weight		approx.	kg	300	400	495
PERFORMANCE DATA						
Temperature range	Salt spray test		°C	5 K above ambient temperature up to +50		
	Condensed water test		°C	5 K above ambient temperature up to +42		
Constancy of temperature, over time <sup>8)</sup>			K	±1	±1 <sup>10)</sup>	
Factory calibration	Salt spray test		°C	+35		
Test space temperature <sup>21)</sup>	Condensed water test		°C	+40		
Factory calibration Humidifier temperature, compressed air humidifier <sup>21)</sup>			°C	+49		
CONSUMPTION AND CONNECTION DATA						
Water consumption	Salt spray test <sup>18)</sup>		l/h	0.4		
	Condensed water test		l	18	38	27
Compressed air consumption <sup>19)</sup>	Salt spray test		m3/h	1.4		
	Ventilating /drying <sup>22)</sup>		m3/h	7.0		
Sound pressure level <sup>17)</sup>	Salt spray test		dB(A)	63		60
	Condensed water test		dB(A)	67		
Electrical connection				230 V, 1 PH, 50 Hz		400 V, 3/N/PE,50 Hz
Connected load		max.	kVA	2	2.6	4.8
On-site back-up fuse <sup>20)</sup>			A	16		

## TECHNICAL DATA | SC/UKWT test chests and IU/H test chambers

				SC/UKWT 1000	SC/UKWT 1500	1000/ 15/IU/H	2400/ 15/IU/H
DIMENSIONS, LOAD, WEIGHT							
Test space volume		approx.	Liter	1028	1450	1000	2520
Test space dimensions <sup>1)</sup>	Height with hood		mm	1140		–	–
	Height without hood		mm	720		1050 <sup>3)</sup>	1400 <sup>3)</sup>
	Width		mm	1670	2460	1020 <sup>4)</sup>	1090 <sup>4)</sup>
	Width up to spraying channel			1560	2360	–	–
	Depth		mm	645	640	890 <sup>5)</sup>	1500 <sup>5)</sup>
Exterior diameters test system overall <sup>1)2)</sup>		Height	mm	1370		2105	2710
		Width	mm	2925	3710	1450	1530
		Depth	mm	1880		2980	4140
Test space door, clear door opening		Height	mm	–	–	1350	1800
		Width	mm	–	–	1100	1200
Wall clearance rear		at least	mm	500		1300	1120
Wall clearance side		at least	mm	900 <sub>6)</sub>		1000	1100
Load on the floor <sup>7)</sup>		max.	kg	150		100	200
Load per support bar		max.	kg	2.5		–	–
Total weight, empty		approx.	kg	650	745	1600	2600
PERFORMANCE DATA							
Temperature range	Salt spray test <sup>18)</sup>		°C	5 K above ambient temperature up to +50			
	Condensed water test		°C	5 K above ambient temperature up to +42		... up to +50 <sup>8)</sup>	
	Ventilating/drying		°C	5 K above ambient temperature up to +70 °C		5 K above ambient temperature	
	Climate test		°C	+23 to +70		+10 to +60	
	Temperature test without climate		°C	–	–	-15 to +60 <sup>9)</sup>	
Constancy of temperature, over time <sup>8)</sup>			K	±1 <sup>10)</sup>	± 1	±1 <sup>11)</sup>	
Cooling/heating speed	Temperature test without climate		K/min	–	–	0.2 <sup>12)</sup>	0.21 <sup>13)</sup>
Humidity range	Climate test		% rH	20 to 98		15 to 95	
Humidity deviation, over time	Climate test		% rH	≤ ±5			
Dewpoint range	Climate test		°C	+12 to +69		+9 to +59	
Calibration values test space temperature	Salt spray test		°C	+35			
	Condensed water test		°C	+40			
	Climate test		°C/% rH	+23 / 50 +50 / 95			
Factory calibration Humidifier temperature, pressure humidifier <sup>21)</sup>			°C	+49			

			SC/UKWT 1000	SC/UKWT 1500	1000/ 15/IU/H	2400/ 15/IU/H
CONSUMPTION AND CONNECTION DATA						
Water consumption	Salt spray test <sup>18)</sup>	l/h	0.4		**	**
	Condensed water test	l	38	27	**	**
Compressed air consumption <sup>19)</sup>	Salt spray test	m3/h	1.4		max. 4	
	Ventilating/drying	m3/h	15.0		**	**
	Climate test	m3/h	15.0		max. 20	**
Sound pressure level <sup>17)</sup>	Salt spray test	dB(A)	63			**
Condensed water test		dB(A)	66	67		
Max. cooling water consumption		m3/h	–	–	3.115)	4.016)
Cooling water connection (supply and return flow)			–	–	R 1"	
Electrical connection			400 V, 3/N/PE, 50 Hz			
Max. connected load	approx.	kVA	9.4	9.8	15	40
On-site back-up fuse <sup>20)</sup>		A	32	25	50	**

- 1) Production-related tolerances of up to ±10 mm are possible
  - 2) Overall dimensions in setup state. With IU/H without brine tank.
  - 3) Useful height
  - 4) Useful width
  - 5) Useful depth
  - 6) On the right next to the control cabinet
  - 7) As distributed load
  - 8) From 5 K above ambient temperature
  - 9) At intervals. Prolonged operation below +5°C may cause the evaporator to ice up. In these cases, the evaporator must be thawed by heating it up to ≥ +10 °C at certain intervals.
  - 10) Constancy of temperature in the climate test ±2 K
  - 11) Constancy of temperature for operation without recirculating air ±2 K
  - 12) Between +35°C and -15°C, on average with 20 kg steel, measured in the air outlet of the recirculating air system
  - 13) Between +23°C and -15°C, on average without test specimen, measured in the air outlet of the recirculating air system
  - 14) SC/KWT units only
  - 15) On average approx. 1.4 kW m<sup>3</sup>/h with cooling water temperature +27°C/+32°C
  - 16) On average approx. 2.4 kW m<sup>3</sup>/h at maximum +16°C/+26°C
  - 17) The noise measurements and sound level data are made in accordance with DIN 45 635, Part 1, accuracy class 2.
  - 18) At 35 °C.
  - 19) At 0 °C and 1 bar
  - 20) Slow-blow, provided by customer.
  - 21) The factory calibration of the temperature values is carried out with calibrated measuring equipment and documented by a certificate. Factory calibration of additional temperature values can be offered if required.
  - 22) For SC KWT only
- \*\* Values on request



## BASIC EQUIPMENT

### EXTERIOR



<b>External housing</b>	Material	Glass-fiber reinforced plastic (GRP)
<b>Test chests</b>	Paint	Paint RAL 7036
<b>Exterior housing test chambers</b>	Material	Galvanized steel sheet
	Paint	Paint RAL 9002
<b>Saline tank</b>	Test chests	Supply tank for saline solution 125 l
	Test chambers	Supply tank for saline solution 200 l, next to the unit
<b>Compressed air unit for salt spray test</b>		With pressure reducer, solenoid and excess pressure valve, manometer and pressure humidifier
<b>Refrigeration unit</b>		Low-noise refrigerating unit with gradual impedance matching through S!MPAC®
<b>Condenser</b>	SC/UKWT	Air-cooled
	Test chambers	Water-cooled
<b>Refrigerant</b>		R-449a R-134a (SC/UKWT)
<b>Heating</b>		Electrical heating elements
<b>Humidification</b>		Steam humidifier

### INTERIOR



<b>Test space tank</b>	Material	Glass-fiber reinforced plastic (GRP) all fittings made of plastic
<b>Test space hood (with test chests)</b>		Double-shell, insulated, ventilated with all-round water channel for the hydrostatic sealing of the test space
<b>Salt spray nozzles</b>	Test chests	Two-component nozzle on the side in the spraying channel
	Test chambers	1000/15/IU/H: permanently installed spray nozzles on the air duct wall 2400/15/IU/H: permanently installed spray nozzles on the side walls of the test space
<b>Ventilation equipment</b>		Ventilator for drawing in air from the installation space (not with SC 500 and SC 1000) Exhaust air opening on the test space
<b>Conditioning of recirculating air</b>		Recirculating air duct with fan and heat exchanger
<b>Feeding of demineralized water for condensed water test</b>		Automatic via solenoid (SC/KWT ... and SC/UKWT)
<b>Humidity measurement and control</b>		Force-humidified psychrometric measuring system in the test space exhaust air

### REGULATION & CONTROL



<b>S!MPAC®</b>	Digital measuring and control system with I/O unit and <b>WEBS</b> Season® control software, can be remote controlled through integration in a network.
	Operation/programming and monitoring unit with 17.78 cm (7") touch panel

### COMMUNICATION



<b>Interfaces</b>	Ethernet interface 100/10 Megabit USB interface
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### Safety



<b>Inspection system</b>	Information about run times and malfunctions
<b>Limit value monitoring system</b>	For test space and humidifier temperature
<b>Safety thermostat</b>	1 per heater, with lockout device

Subject to technical modifications!

## OPTIONS | SC test chests

### Demineralization

#### Demineralization unit, 10 l, pressure-resistant up to 8 bar

Demineralization cartridge in pressure-resistant design including conductivity monitoring device and pressure-resistant connection hose (3/4" flat-sealing).

#### Activated carbon filter for demineralized water

Activated carbon filter for demineralized water

### Access ports

#### Access ports with plug

Possible sizes:

- Ø 50 mm
- Ø 100 mm
- Ø 150 mm

Sealing plug made of silicone is provided

#### Please note:

Possible positions must be taken from the technical description and specified when ordering.

### Test specimen supports

#### Support strips

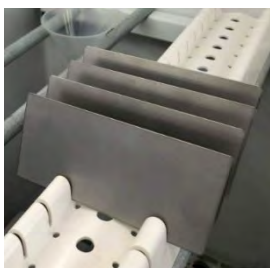
- 500 l: 2 pcs
- 1000 l: 2 pcs
- 1500 l: 4 pcs

#### Insertion shelf, reinforced

up to max. distributed load 300kg

#### Test specimen holder for standard sheets, additional

3 pcs



#### GRP beams

Load per beam 2.5 kg, max. load on both levels not possible.

Bottom and top:

- 500 l: 7 pcs
- 1000 l: 15 pcs
- 1500 l: 23 pcs



### Camera systems

#### Camera system as substitute for triangular window

Variant I: Display on the measurement PC via camera software

Variant II: Display on the measurement PC + TimeLabs

Test specimen evaluation is only possible to a certain extent with this camera system.

### SO2 gas dosing device

#### SO2 gas dosing device, manual, for EN ISO 6988

With hood locking + key switch  
not for SC and SC/UKWT

#### SO2 gas dosing device, fully automatic for EN ISO 6988

With hood locking + key switch  
not for SC and SC/UKWT

## Ring flushing pipe/ ventilation

### Ring flushing pipe

Walls are flushed with demineralized water (or town water, specify when ordering) via a ring pipe to remove salt residues.

### Ventilation equipment in accordance with DIN 50014-5

Comprising:

- an additional solenoid,
- connection cables and connection hoses.

## Precipitation measurement

### Precipitation quantity collector

- 6 measuring cylinders each
- 6 plastic funnels to detect distribution of the spray mist in the chamber



### Fully automatic recording of precipitation quantity

Display installed in the control panel of the SC, with standardized collecting funnel



## Brine supply tank

### Saline solution supply tank 125 l

with trolley, float switch without pump



### Saline solution supply tank 200 l

with automatic run-on into the standard supply tank



### Automatic run-on

For saline solution from the on-site, higher-level supply tank

### Salt spray preparation tank

200l or 500l, for mixing and refilling

## Compressed air supply

### Compressed air diaphragm pump

125 l, with trolley  
Float switch without pump

### Saline solution supply tank

200 l with automatic run-on  
into the standard supply tank

### Compressed air diaphragm for feeding on-site demineralized water into the compressed air humidifier

If necessary, demineralized water is conveyed from an on-site supply tank into the compressed air humidifier.

## Standards

### Direct spraying of saline solution

with UKWT 1000 (*not for 1500 l version*)

for the automatic running of the standards

VOLVO STD 1027, 1375

VOLVO STD 1027, 14

VOLVO VCS 1027, 149

VOLVO STD 423-0014

VOLVO VCS 1027, 1449

Ford CETP: 00.00-L-467

### RENAULT D17 2028/--C (2007), Test ECC1 UKWT 1000

### Extension of equipment regulations for Bosch

- Strain relief feeder line
- Operating equipment marking on both ends of the cables, in addition an overview is prepared and stored at the control cabinet
- Grounding disconnect terminal is provided

## Special voltage

### Special voltage on request

## Climate extension

### Climate 40/93 extension

For humidification and dehumidification, compressed air is fed directly or via the humidifier into the test room. Temperature control (heating) is carried out via the standard wall heaters.

## Other

### Refractometer

For measurement e.g. salt concentration

### Compact pH-meter

For measuring the pH value of the saline solution

### Microprocessor pH meter

Mobile pH meter for measuring the pH value of the saline solution with laboratory-standard accuracy.

### Ultrasonic cleaner

For the fast cleaning of nozzles.

### Special voltage on request

### Special voltage on request

## OPTIONS | IU/H test chambers

### Demineralization

#### Demineralization unit, 10 l, pressure-resistant up to 8 bar

Demineralization cartridge in pressure-resistant design including conductivity monitoring device and pressure-resistant connection hose (3/4" flat-sealing).

#### Activated carbon filter for demineralized water

Activated carbon filter for demineralized water

### Access ports

#### Access ports with plug

Possible sizes: Ø 50 mm

### Test specimen supports

#### Test specimen frame

#### Test specimen holder for standard sheets, additional

3 pcs

### Door

#### Door stop right

Version of the unit door with door stop on the right-hand side.

### Ring flushing pipe/ventilation

#### Ring flushing pipe

Walls are flushed with demineralized water (or town water, specify when ordering) via a ring pipe to remove salt residues.

### Precipitation measurement

#### Precipitation quantity collector

- 6 measuring cylinders each
- 6 plastic funnels to detect distribution of the spray mist in the chamber

#### Fully automatic recording of precipitation quantity

Display installed in the control panel of the SC, with standardized collecting funnel

### Brine supply tank

#### Salt spray preparation tank

200l or 500l, for mixing and refilling

## Standards

### Direct spraying of saline solution

for the automatic running of the standards

VOLVO STD 1027, 1375

VOLVO STD 1027, 14

VOLVO VCS 1027, 149

VOLVO STD 423-0014

VOLVO VCS 1027, 1449

Ford CETP: 00.00-L-467

Condensed water test (in accordance with DIN EN ISO 6270-2 Test CH, AHT)

Supply air heater up to +70 °C (Nissan test and others)

## Cooling

### Air-cooled version

with 3m flexible coolant hoses

## Special voltage

Special voltage on request

## THE PRODUCT CONFIGURATOR

Your digital advisor

**Configure your desired model to fit your application.**

Would you like to customize the new ClimeEvent? This can be done quickly and easily with our product configurator. The online tool guides you through the configuration in just a few steps. Select and combine the options to suit your requirements. Please contact us for more information without obligation or send us your configuration for a quotation.

Simply test it:



## DEVICES AVAILABLE AT SHORT NOTICE

Request today - test next week

**Extensive pool of stock and rental equipment**

These include temperature and climatic test chambers as well as stability test chambers, corrosion test chambers and thermal shock test chambers. Take a look around - the right device for you is just a few clicks away.



Click here for the devices:



## STANDARD FINDERS

The right support for every test

**Our test chambers are suitable for a wide range of tests.**

Various industry and factory standards are safely met. You can find a selection of test specifications and standards by using the specially developed standards finder on our website.

*The standards finder will help you find the right product to suit your needs.*

Enter standard

Add +

Select chamber type

Click here to find the right support:



## SERVICE

**Our approach is to think and act as partners.**

We set high standards. Thanks to our service departments, we offer sustainable solutions for long-term reliable plant operation:

- Expert advice with 24/7 helpline
- Maintenance and spare parts management
- Calibration and qualification



More information:





# Passionately innovative.

We work in partnership to support companies in research,  
development, production and quality assurance.  
With 22 companies in 15 countries at 40 locations.

weisstechnik

For a safe future.



## Environmental Simulation

The first choice for engineers and researchers for innovative, safe environmental simulation facilities. In fast motion, our test systems can simulate all the influences in the world as well as for instance in space. In temperature, climate, corrosion, dust or combined stress tests. With a very high degree of reproducibility and precision.



## Air Solutions

As the leading provider of clean rooms, climate technology and air dehumidification, we consistently ensure optimal climatic conditions for people and machines. For industrial production processes, in hospitals, mobile operation tents or in the field of information and telecommunications technology. From project planning to implementation..



## Heat Technology

Experienced engineers and designers develop, plan and produce high-quality, reliable heat technology systems for a broad range of applications from heating and drying cabinets to microwave systems and industrial furnaces.



## Pharmaceutical Technology

With decades of experience and know-how, we guarantee the most sophisticated clean air and containment solutions. Our comprehensive and innovative range of products includes barrier systems, laminar flow systems, safety workbenches, isolators, airlocks and stability test systems.

### Weiss Technik GmbH

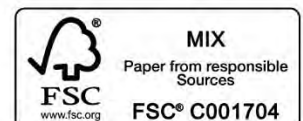
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Click here  
to see the product.



**Test it. Heat it. Cool it.**