

## Cyclic Corrosion Test Salt Spray (Fog) / Humidity


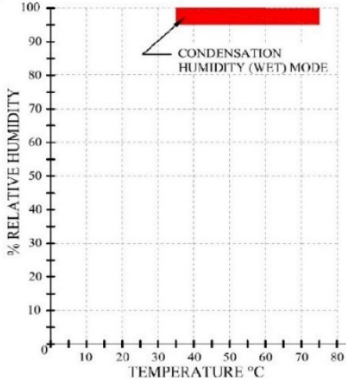
- Built in fiberglass with special resin of high chemical and temperature resistance (Inert Material - ASTM B117), externally and internally.
- Indirect heating of the internal cabinet through the air jacket (ASTM B117), ensuring great homogeneity of the internal temperature of the test cabinet.

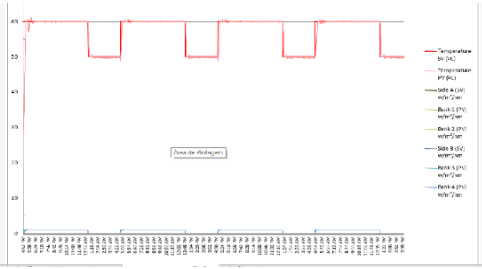
**(US Patent No.10371623)**



NOTE: Others internal volume consult us.

Specification/Model	Walk In 14 SS-CH	Walk In 40 SS-CH	Walk In 55 SS-CH
<b>Internal and external material</b>	Entirely in fiberglass (No metals)		
<b>Allows programming cycles with 2 different modes</b>	<ul style="list-style-type: none"> <li>- Mode: SALT SPRAY / SALT FOG (ASTM B117)</li> <li>- Mode: CONDENSED HUMIDITY – 97% ~ 100 R.H (ISO 6270-2 / ASTM D2247)</li> </ul>		
<b>Chamber Temperature Range Salt Spray Mode</b>	Ambient + 9°F (5°C) - +122°F (50°C)		
<b>Chamber Temperature Humidity Mode</b>	Ambient + 9°F (5°C) - +158°F (75°C)		

<b>Bubble Tower Temperature Range</b>	<p style="text-align: center;">Ambient + 9°F (5°C) - +165°F (74°C)</p>
<b>Bubble Tower with constant level, no auxiliary tank necessary for long duration test</b>	
<b>MODE: Salt Spray / Salt Fog</b>	<ul style="list-style-type: none"> <li>- Chamber Temperature Range: Ambient +9°F (5°C) to 122°F (50°C)</li> <li>- Saturator Tower (Bubble Tower) Temperature Range: Ambient +9°F (5°C) to 165°F (74°C)</li> <li>- Resolution of chamber and bubble tower temperature controller: 0.1°C</li> <li>- PT100 temperature sensors – 3 wire</li> <li>- Homogeneity of chamber and bubble tower temperature: ±1.8°F (±1.0°C)</li> <li>- Bubble Tower Pressure Range: 29 kPa min. to 196 kPa max. (4.2psi min. to 28 psi max.)</li> <li>- Fog Collection Range: ASTM B 117, ISO 9227, JIS Z 2371: 1.0 to 2.0 ml/hour, continuous 16 hours of test (consult to: 3.0 +/- 1.0 ml/hour).</li> </ul>
<b>MODE: Humidity 97% ~ 100% R.H</b>	<ul style="list-style-type: none"> <li>- Chamber Temperature Range: Ambient +9°F (5°C) to 167°F (75°C), in accordance with the red area of the graphic below.</li> <li>- Relative Humidity: 97% ± 3%</li> <li>- Resolution of chamber and bubble tower temperature controller: 0.1°C</li> <li>- PT100 temperature sensors – 3 wire</li> </ul> 

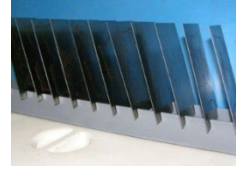
<b>Approximated internal cabinet volume</b>	494.4 ft <sup>3</sup> (14 m <sup>3</sup> )	1,342 ft <sup>3</sup> (38 m <sup>3</sup> )	1,907 ft <sup>3</sup> (54 m <sup>3</sup> )
<b>Data Acquisition Software - option:</b>	 <p>The figure is a trend plot titled 'Zona de Almacenamiento'. The y-axis represents temperature in degrees Celsius, ranging from 10 to 60. The x-axis represents time in hours, from 0 to 24. The plot shows a red line for 'Temperatura Set (°C)' which fluctuates between approximately 50°C and 60°C. Other parameters like 'Temperatura ambiente (°C)', 'Humedad A (%)', 'Humedad B (%)', 'Humedad C (%)', 'Humedad D (%)', 'Humedad E (%)', 'Humedad F (%)', 'Humedad G (%)', 'Humedad H (%)', 'Humedad I (%)', and 'Humedad J (%)' are listed in the legend but their values are not clearly visible on the plot.</p>		
<b>Electrical panel built to meet CE /UL508A.</b>  <b>UL508A Certification contact us – Optional</b>	<p style="text-align: center;">Included</p>		
<b>Visual and audible security system</b>	<p style="text-align: center;">Included</p>		
<b>Trend Plot of Test Parameters on touch screen</b>	<p style="text-align: center;">Included</p>		
<b>Alarm message, recommended maintenance displayed on touch screen</b>	<p style="text-align: center;">Included</p>		
<b>Critical parameters shown on a single screen.</b>	<p style="text-align: center;">Included</p>		
<b>Programs open for programming the corrosion cycles.</b>	<p style="text-align: center;">Included</p>		
<b>Error messages display indicates alarm triggered with description and saves alarm time and date.</b>	<p style="text-align: center;">Included</p>		

Visual and sound safety system on screen.	Included		
Internal Dimensions W x D x H (included the ceiling "V" (W x D x H)	2,000 x 2,000 x 3,500 mm (78.7"x 78.7" x 137.8")	3,500 x 3,500 x 3,600 mm (137.8" x 137.8" x 141.8")	3,500x 5,000 x 3,600 mm (137.8"x 196.9"x 141.8")
External Dimensions (W x D x H)	2,300 x 2,300 x 3,950 mm (90.6"x 90.6" x 155.5")	3,900 x 3,900 x 4,100 mm (153.6"x 153.6" x 161.5")	3,900 x 5,400 x 4,100 mm (153.6"x 212.6"x 161.5")
Door (W x H)	1,500 x 2,100 mm (59.1"x 82.7")	3,000 x 2,100 mm (118.2"x 82.7")	3,000 x 2,100 mm (118.2"x 82.7")
Ramp (W x D)	1,500 x 1,000 mm (59.1"x 39.4")	3,000 x 1,000 mm (118.2"x 39.4")	3,000 x 1,000 mm (118.2"x 39.4")
Electric panel (W x D x H)	1,500 x 1,000 x 1,500 mm (59.1"x 39.4"x 59.1")	1,500 x 1,000 x 2,000 mm (59.1"x 39.4"x 78.7")	1,500 x 1,000 x 2,000 mm (59.1"x 39.4"x 78.7")
Accessories area Approx. Dimensions (Bubble Tower, Solution Tank, Pumps, and others) (W x D)	2,500 x 2,500 mm (98.5"x 98.5")		
Approx. Crated Dimensions	Container 40`		
Approximate net weight	1,350 Kg (2,976.3 lb)	3,200 kg (7,054.8 lb)	4,200 Kg (9,259.5 lb)
Recommended Lab conditions	Temperature: 63 °F (17°C) - 82°F (28°C), Relative humidity: Maximum 85% (without condensation)		
Electrical Supply	460 – 3 – 50/60 Hz (other consult)		
FLA (208V)	55	70	90
Test water requirement	ASTM D 1193 Type IV		
DI water pressure	7 to 28 psi (0.5 to 2.0 kgf/cm <sup>2</sup> )		
DI water input Ø	Ø=1" – 350 liters/hour		
Constant Pressure	Ø = 1.¼" - 56 psi +/- 0.7 psi (4 kgf/cm <sup>2</sup> )		
City Water Supply	Chamber cleaning		
Corrosive Agent	Per Standard		
Lab exhaust	Fume Hood and motor – if necessary		
Drain	PVC Ø =1"		
Chamber exhaust	PVC Ø = 6" pipe without siphon		
Measurement items: pH, Conductivity NaCl concentration	In accordance with ASTM B 117, JIS Z 2374, ISO 9227		

<b>Service Area</b>	minimum of 39.4" (1,000 mm) for an easier cleaning, assembling and maintenance
1 (One) Year Parts Warranty against manufacturing defects from date of delivery at customer's site. This assumes equipment is used under normal operating conditions in accordance to the instruction manual. This warranty does not apply to glassware (lamps). In case of non-warranty issues during warranty period, actual expenses shall apply.	
<b>Note 1:</b> All our equipment is delivered with Installation, Maintenance and User Manual. We believe this material is enough for the correct use of the equipment. We are available for further questions and clarifications. Additionally, if desired, we can provide the technicians to assemble the equipment and conduct staff training at the client's site. (Cost available upon request).	
<b>Note 2:</b> Appearance and specifications of equipment are subject to change without prior notice.	
<b>Note 3:</b> We highly recommend that you don't use the same chamber for different solutions, e.g. don't use a Salt Spray chamber for CASS; Kesternich (SO <sub>2</sub> ) test or CASS chamber for humidity test due the chemical contamination that may distort the results. See item 4.6 of Standard ISO 9227.	

## Optional Accessories

- (1) rack - 15° or 20° inclination in accordance with ASTM B117 and ISO 9227.
- Special rack for customer supplied test sample.
- (2) Fog collectors.
- Pressure regulator with water, oil filter and pressure gauge.
- Fiberglass Fume Hood (hood only).
- Fiberglass axial fan assembly capacity: 1940 cfm. Net weight: 88 lbs. (40 kg).
- DI Water assembly includes: activated carbon water filter, DI column, LED water quality indicator.
- Spare DI water column.
- Spare activated carbon water filter.
- Density meter to measure concentration of saline solution in accordance to ASTM B 117.
- Bag 50 lbs. – NaCl in accordance ASTM B 117 and ISO 9227.



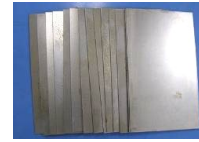
Factory Consult



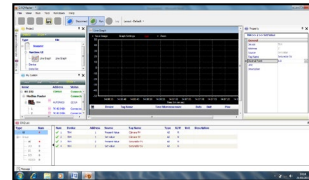
- Test Panels – 2.9" x 5" (76mm x 127mm). In accordance with ASTM B 117 (100 Pieces).



- Test Panels – 2.7" x 5.9" (70mm x 150mm). In accordance with ISO 9227 (100 pieces).



- Data Acquisition Software:
  - By PC (RS 232 or USB)



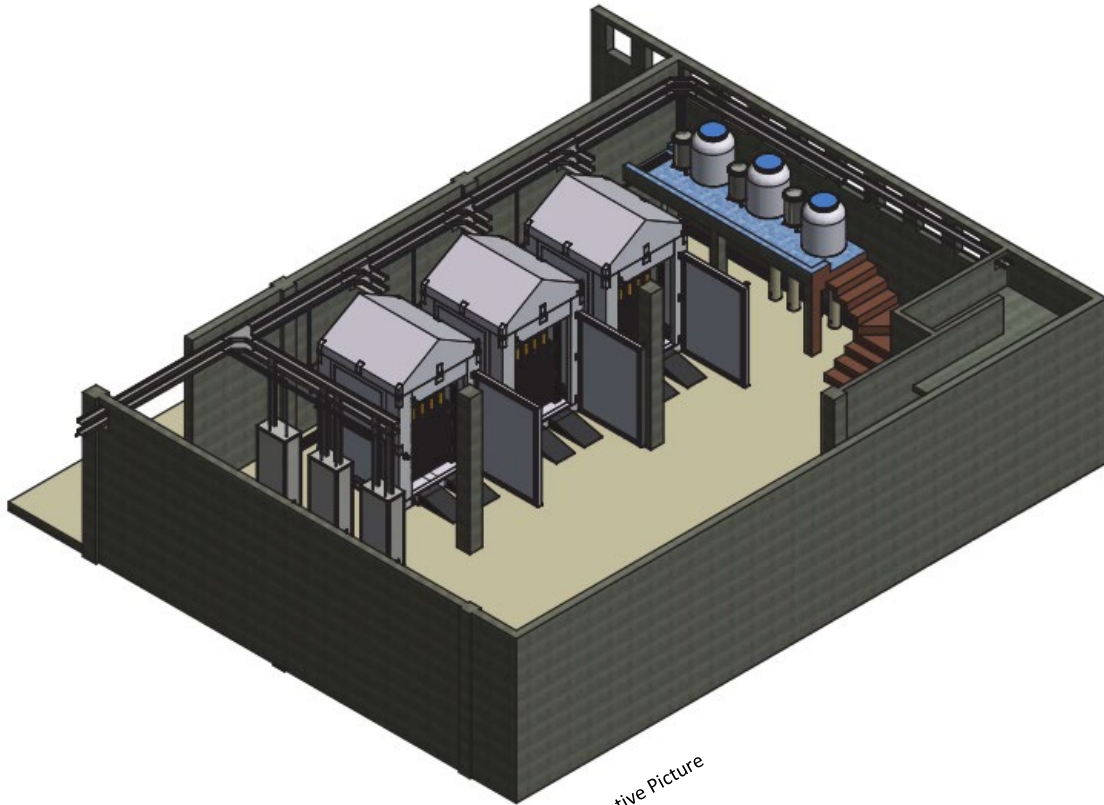
- Grid type test brackets supports 120 kg with distributed load.



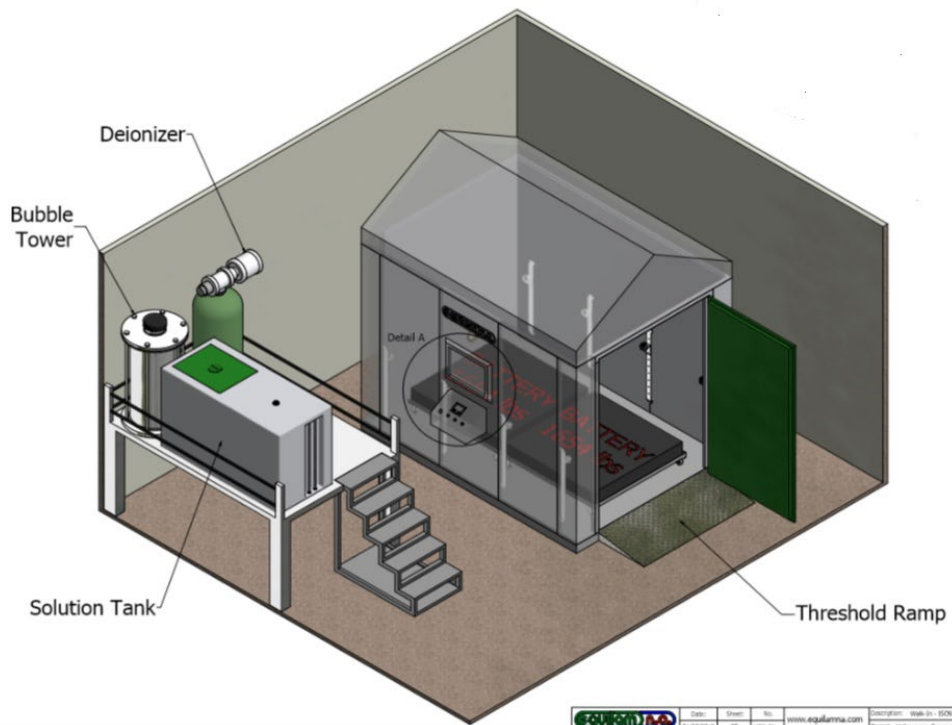
- Cable port  $\varnothing = 2"$  (Others  $\varnothing$ , consult us)  
EQOP 0034



**Further optional requests shall be considered upon request.**



Illustrative Picture



Date: 01/27/2014 Sheet: 01 No.: www.equilamna.com Description: Walk-in - ISO/207 Challenge  
 Project: Volkswagen Group of America Rev: 00