

Cyclic Corrosion Test – C.C.T. CORR Series

The C.C.T. CORR Series is designed to perform cyclic corrosion tests on metallic samples with organic and non-organic coatings, to meet Automotive, SAE, IEC, ISO, ASTM, JIS standards, and others.

- 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 homogeneity of the internal temperature of the test cabinet.



Illustrative Photo Walk In 14 CCT CORR



Illustrative Photo Walk In 40 CCT CORR

Other dimensions consult us

Specifications/Model	Walk In 14 C.C.T CORR	Walk In 40 CCT CORR	Walk In 55 CCT CORR
Modes:	<ul style="list-style-type: none"> - Mode: SALT SPRAY / SALT FOG - Mode: HUMIDITY – 95 ~ 100 % R.H - Mode: DRY OFF (Hot Air Injection) - Mode: SPRAY / STRESS* (Ford, Volvo, Scania/SAAB) - Mode: CLIMATIZATION* (Temp. x R.H%) - Mode: LOW TEMPERATURE * -4°F (-20°C), consult us another. - Mode: ULTRA LOW TEMPERATURE * -22°F (-30°C), consult us another. <p>* Optional modes</p> <p>NOTE: If you have a specific technical standard to be met, we are at your disposal for any clarifications.</p>		
Internal and external material	Entirely in fiberglass (No metals)		
Approximated internal cabinet volume	494.4 ft ³ (14 m ³)	1,342 ft ³ (38 m ³)	1,907 ft ³ (54 m ³)
External Dimensions: W x D x H (mm)	90.6" x 90.6" x 155.5" (2,300 x 2,300 x 3,950)	153.6" x 153.6" x 161.5" (3,900 x 3,900 x 4,100)	153.6" x 212.6" x 161.5" (3,900 x 5,400 x 4,100)
Internal Dimensions W x D x H (mm) Included the ceiling "V"	78.7" x 78.7" x 137.8" (2,000 x 2,000 x 3,500)	137.8" x 137.8" x 141.8" (3,500 x 3,500 x 3,600)	137.8" x 196.9" x 141.8" (3,500 x 5,000 x 3,600)
Door W x H: (mm)	59.1" x 82.7" (1,500 x 2,100)	118.2" x 82.7" (3,000 x 2,100)	118.2" x 98.5" (3,000 x 2,500)

Ramp W x D: (mm)	59.1" x 39.4" (1,500 x 1,000)	118.2" x 39.4" (3,000 x 1,000)	118.2" x 39.4" (3,000 x 1,000)
Electric panel W x D x H: (mm)	59.1" x 39.4" x 59.1" (1,500 x 1,000 x 1,500)	59.1" x 39.4" x 78.7" (1,500 x 1,000 x 2,000)	59.1" x 39.4" x 78.7" (1,500 x 1,000 x 2,000)
Refrigeration System (MAP) dimension W x D: (mm)	78.7" x 63.0" (2,000 x 1,600)	137.8" x 90.6" (3,500 x 2,300)	137.8" x 90.6" (3,500 x 2,300)
<p>MODE: Salt Spray / Salt Fog ASTM B117/ISO 9227/JIS Z2371/ DIN 50021</p>	<ul style="list-style-type: none"> - Chamber Temperature Range: Ambient +9°F (5°C) to 122°F (50°C) - Saturator Tower (Bubble Tower) Temperature Range: Ambient +9°F (5°C) to 165°F (74°C) - Resolution of chamber and bubble tower temperature controller: 0.1°C - PT100 temperature sensors – 3 wire - Homogeneity of chamber and bubble tower temperature: ±1.8°F (±1.0°C) - Bubble Tower Pressure Range: 29 kPa min. to 196 kPa max. (4.2psi min. to 28 psi max.) - Fog Collection Range: ASTM B117, ISO 9227, JIS Z2371: 1.0 to 2.0 ml/hour, continuous 16 hours of test 		

<p>MODE: Humidity – 95% ~100% R.H (ISO 6270-2/ASTM D2247)</p>	<ul style="list-style-type: none"> - Chamber Temperature Range: Ambient +9°F (5°C) to 167°F (75°C), in accordance with the red area of the graphic below. - Relative Humidity: 95 ~ 100% (ISO 6270-2 / ASTM D2247) - Resolution of chamber and bubble tower temperature controller: 0.1°C - PT100 temperature sensors – 3 wire <div style="text-align: center;"> </div>
<p>MODE: Dry Off</p>	<ul style="list-style-type: none"> - Injection of hot and dry air into the chamber- the dry air temperature with homogeneity of $\pm 0.9^{\circ}\text{F}$ (0.5°C). - Dry Off Temperature Range: Ambient + 9°F (+5°C) to 158°F (75°C), with control of soak and ramp. - Resolution of temperature controller 0.1°C. - Included Timer for Mode, Set Point and Elapsed Time: hh:mm - PT100 temperature sensors – 3 wire. - Isolation System, prevents contamination by SALT SPRAY during the air system injection.

- The user can set the temperature and relative humidity within the chamber in accordance with the green area of the graphic below.
- Heating Temperature range: 68°F to 176°F (20°C to 80°C), with ramp and soak control
- Cooling Temperature range: 176°F to 68°F (80°C to 20°C), with ramp and soak control
- Horizontal air movement inside the chamber.
- Cooling System, compressor, evaporator (coil), control valves and software.
- Relative Humidity: Green area of graph \pm 3%.

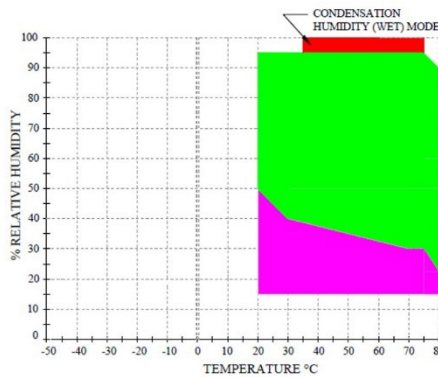
Power Electric 220 V-3-60 (other consult us);

Refrigeration System: Compressor, water cooling, Refrigerant 404A;

Air Speedy less than 1 m/sec.

**MODE: CLIMATIZATION
(Temp. X RH)**

Optional Accessories:
CODE: EQOP.0124
WK14, 40, 55

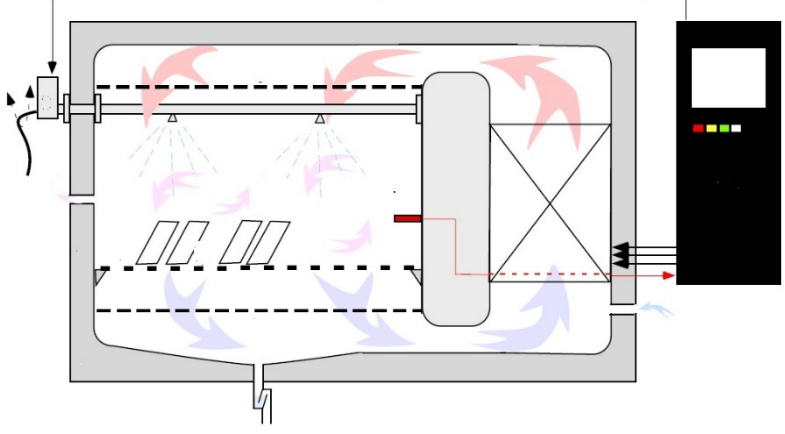



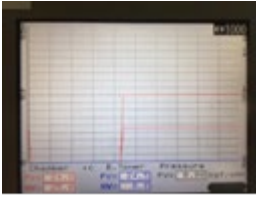



CODE: EQOP.0127 - WK14, 40, 55

Mode: LOW TEMPERATURE * -4°F (-20°C), consult us another.

CODE: EQOP.0136 - WK14, 40, 55




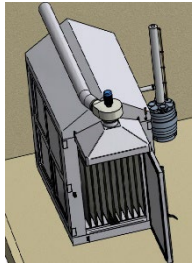


Mode: ULTRA LOW TEMPERATURE * -22°F (-30°C), consult us another.











<p>MODE: SPRAY / STRESS*</p> <p>FORD: CETP:00.00-L-467</p> <p>Volvo: STD 423-0014</p> <p>Optional Accessories CODE: EQOP.0130 WK14, 40, 55</p>	 <p style="text-align: center;">illustrative scheme</p>
<p>Trend Plot of Test Parameters on touch screen</p>	<p style="text-align: center;">Included</p>
<p>Electrical panel built to meet CE /UL508A.</p> <p>UL508A Certification contact us – Optional</p>	<p style="text-align: center;">Included</p>
<p>Alarm message, recommended maintenance displayed on touch screen</p>	<p style="text-align: center;">Included</p>
<p>Critical parameters shown on a single screen.</p>	<p style="text-align: center;">Included</p>
<p>Programs open for programming the corrosion cycles.</p>	<p style="text-align: center;">Included</p>
<p>Error messages display, indicates alarm triggered with description, and saves alarm time and date.</p>	<p style="text-align: center;">Included</p>
<p>Visual and sound safety system on screen.</p>	<p style="text-align: center;">Included</p>
<p>Bubble Tower with constant level, no auxiliary tank necessary for long duration test</p>	



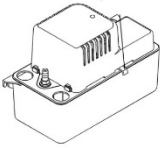

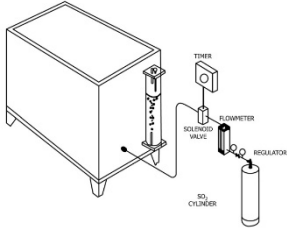
<p>Data Acquisition Software</p> <p>CODE: EQOP. 0037 optional</p>	
<p>Button of emergency stop</p>	
<p>Button safety lock to protect the User that performs preventive and corrective maintenance.</p>	
<p>Accessories area Approx. Dimensions (Bubble Tower, Solution Tank, Pumps, and others) (W x D)</p>	<p>98.5" x 98.5" (2,500 x 2,500 mm)</p> 
<p>Recommended temperature for installation</p>	<p>63 °F to 82°F (17°C to 28°C)</p>
<p>Equipment Installation Relative Humidity recommendation</p>	<p>Maximum 85% (without condensation)</p>
<p>Electrical Supply</p>	<p>208 ~ 220 V-Ø3-50/60Hz (another consult us)</p>
<p>DI water</p>	<p>In accordance with ASTM D 1193 Type IV</p>
<p>DI water Pressure - Flow</p>	<p>0.5 to 1.0 kgf/cm² - 350 liters/h</p>
<p>DI water connection</p>	<p>Ø = 1" NPT</p>
<p>Compressed air - Flow</p>	<p>Ø=3/4 - Free of oil and water – flow rate and constant pressure 9 kgf / cm² - 3 ~ 4 m³/ hour</p>
<p>Chamber Exhaustion Pipe without siphon</p>	<p>Ø = 6" PVC</p>
<p>Drain</p>	<p>Ø = 1" PVC</p>

Measurement items: pH, Conductivity NaCl concentration	<p style="text-align: center;">In accordance with ASTM B 117, JIS Z 2374, ISO 9227</p>
Service Area	<p style="text-align: center;">Minimum clearance of 39.4" (1,000 mm) for an easier cleaning, assembling and maintenance.</p>

OPTIONAL ACCESSORIES

CODE: EQOP.0004	<ul style="list-style-type: none"> • Rack - 15° or 20° inclination in accordance with ASTM B117 and ISO 9227. 	
CODE: EQOP.0005	<ul style="list-style-type: none"> • Special rack for customer supplied test sample. 	
CODE: EQOP.0008	<ul style="list-style-type: none"> • (2) Fog collectors. 	
CODE: EQOP.0009	<ul style="list-style-type: none"> • Pressure regulator with water, oil filter and pressure gauge. 	
CODE: EQOP.0011_WK	<ul style="list-style-type: none"> • Fiberglass Fume Hood (hood only). 	
CODE: EQOP.0012	<ul style="list-style-type: none"> • Fiberglass axial fan assembly capacity: 1940 cfm. Net weight: 88 lbs. (40 kg). 	
CODE: EQOP.0013	<ul style="list-style-type: none"> • DI Water assembly includes: activated carbon water filter, DI column, LED water quality indicator. 	

CODE: EQOP.0014	<ul style="list-style-type: none"> • Spare DI water column. 	
CODE: EQOP.0015	<ul style="list-style-type: none"> • Spare activated carbon water filter. 	
CODE: EQOP.0016	<ul style="list-style-type: none"> • pH meter – Digital with standard solution. 	
CODE: EQOP.0017	<ul style="list-style-type: none"> • Conductivity meter – Digital with standard solution. 	
CODE: EQOP.0018	<ul style="list-style-type: none"> • Density meter to measure concentration of saline solution in accordance to ASTM B 117. 	
CODE: EQOP.0019	<ul style="list-style-type: none"> • Plastic bucket with 50lb Salt EQCORR with chemical Analysis certificate 	
CODE: EQOP.0038	<ul style="list-style-type: none"> • Test Panels – 2.9" x 5" (76mm x 127mm) . In accordance with ASTM B117 (100 Pieces). 	
CODE: EQOP.0075	<ul style="list-style-type: none"> • Test Panels – 2.7" x 5.9" (70mm x 150mm). In accordance with ISO 9227 (100 pieces). 	
CODE: EQOP.0037	<ul style="list-style-type: none"> • Data Acquisition Software: 	
CODE: EQOP.0047	<ul style="list-style-type: none"> • Digital relative humidity (RH%) Indication on the control panel. 	PLC
CODE: EQOP.0120	<ul style="list-style-type: none"> • Grid type test brackets supports 120 kg with distributed load. 	

CODE: EQOP.0035	<ul style="list-style-type: none"> Cable port $\varnothing = 2''$ (other, consult us) 	
CODE: EQOP.0169	<ul style="list-style-type: none"> Inclined specimen holder for 36 screws with Nylon threaded bushings to be defined by the customer (maximum $\varnothing 22\text{mm}$) 	
CODE: EQOP.0068	<ul style="list-style-type: none"> Pump to drain precipitated solution - Salt Spray Chamber 	
CODE: EQOP.0007_WK	<ul style="list-style-type: none"> Thermal Viewing window. 19.7" x 19.7" (500 x 500 mm) 	
CODE: EQOP.0046	<ul style="list-style-type: none"> SO2 Injection - ASTM G85 A4 	
CODE: EQOP.0131	<ul style="list-style-type: none"> Prohesion – ASTM G85 A5. DILUTE ELECTROLYTE CYCLIC FOG/DRY TEST 	ASTM G 85 A5
CODE: EQOP.0099	<ul style="list-style-type: none"> Saturated humidity by Atomization 	ASTM D 1735
CODE: EQOP.0086	<ul style="list-style-type: none"> SWAAT test – ASTM G85 A3. ACIDIFIED SYNTHETIC SEA WATER (FOG) TESTING 	ASTM G 85 A3
CODE: EQOP.0086	<ul style="list-style-type: none"> SWAAT test – VW PV 1208/2016.2 	Volkswagen
CODE: EQOP.0132	<ul style="list-style-type: none"> Washing the walls with hot DEI water 	SAAB – SCANIA – RENAULT ECC1 and ECC2

CODE: EQOP.0133	<ul style="list-style-type: none"> Spray nozzles in accordance with RENAULT – ECC1. Incompatible with nozzles: ISO 9227 - ASTM B117 	Renalt ECC1 and ECC2
CODE: EQOP.0124 WK14, 40, 55	<ul style="list-style-type: none"> Climatization Mode 	Temp x Humidity control
CODE: EQOP.0130 WK14, 40, 55	<ul style="list-style-type: none"> MODE: SPRAY / STRESS 	FORD CETP:00.00-L-467 and TM: 00.00-L-467
CODE: EQOP.0127 WK14, 40, 55	<ul style="list-style-type: none"> Low Temperature 	Chamber Temp.-4°F (-20°C)
CODE: EQOP.0136 WK14, 40, 55	<ul style="list-style-type: none"> Ultra-Low Temperature 	Chamber Temp.-22°F (-30°C) (other consult us).

Further optional requests shall be considered upon request.



Illustrative photo chamber Internal view - Walk In 40 CCT CORR



Illustrative photo Walk In 40 CCT CORR



Illustrative photo Walk In 14 CCT CORR