C&W Cyclic Corrosion Cabinet

CCT Cyclic Corrosion Test Cabinets
Meet the environmental testing requirements.

www.cw-spec.com
The C&W Cyclic Corrosion Test Cabinets (CCT) are designed to continuously deliver the precise environmental test conditions demanded by modern industry. Their reliability, ease of operation and robust construction has led to their use worldwide in all major sectors from automotive manufacture, to the paint, plastics, packaging, electronics, aerospace, military and offshore industries.

Pioneering designs have made C&W the UK leader in the manufacture of accelerated corrosion and environmental test cabinets.

Operating Modes

The C&W CCT cabinet provides a full range of environmental test conditions including:

- Conventional salt spray/salt fog.
- High humidity, 98% RH, at constant or cyclic temperatures.
- Dry heat – ambient to 70°C.

With its user-friendly programme logic controller, any one or any combination of these conditions can be selected, programmed in any sequence and for any pre-set time. CCT cabinets can also be used in single mode as the following: Cyclic Prohesion® Cabinet, CASS Cabinet, Conventional Salt Spray/Salt Fog Cabinet, Humidity Cabinet.

Optimum Operation

Effective corrosion testing requires rapid transition between test regimes with minimum fluctuation. In C&W’s CCT cabinets these criteria are assured by:

- Dry/moist air facility included.
- Sophisticated atomiser ensuring even distribution of salt spray and precise collection rates throughout the chamber.
- Fully adjustable water temperature control with digital display.
- Overheating and low water protection.
- Easy access for filling and sterilisation to prevent excessive growth of algae.
- Optional low level alarm system available.
Standards

C&W CCT cabinets conform to all leading corporate, national and international standards including:

**British/ISO/EN Standards:**
- ISO 7253, ISO 9227, BS 3900 F12

**German Standards:**
- DIN 50021

**American Standards:**
- ASTM B117

**Japanese Standards:**
- JIS-K 5622-7

**Corporate Standards:**

Warranty

Subject to agreed maintenance procedures a two year warranty is available. The standard warranty is one year.

Air purge to remove corrosion air borne salt fog prior to sample inspection.

Mobile external salt solution reservoir with integral filter system. 114 litre capacity giving approximately 10 days continuous operation.

Precise Control

C&W cabinets are designed for ease of operation. All units incorporate a microprocessor controller with the capacity to hold up to 7 programmes with unlimited event entries. Rapid programme selection and the facility to create new programmes to meet specific needs, puts the operator in total control.

- Programme run cycle counter with ‘End of Test’ facility.
- The ability to monitor cycles, events and functions is made possible by the comprehensive package of control and display features.
- Full visual display of all events, cycles and test conditions.
- Accurate salt solution flow control via a variable speed, heavy duty peristaltic pump and flow meter. This ensures precise collection rates and eliminates atomizer blockage.
- Air regulator and gauge to control and monitor the air pressure required for precise salt spray rates.

Design Benefits

CCT cabinets, with their clean, functional design are manufactured from high quality materials selected specifically for this application.

- Installation in areas of restricted access is made easier due to the compact design aided by wheels and removable lids.
- Wet or dry seal option.
- Specially formulated retardant glass reinforced polyester (GRP) with high chemical and temperature tolerance.
- Apex lids are available in a range of composite materials depending on test requirements, and supported by gas springs.
- Ergonomically designed control panel.
- Corrosion resistant construction throughout.
## Technical Specifications

### Models

<table>
<thead>
<tr>
<th>Models</th>
<th>CW1401 100 litre</th>
<th>CW1402 200 litre</th>
<th>CW1404 450 litre</th>
<th>CW1407 750 litre</th>
<th>CW1410 1000 litre</th>
<th>CW1420 2000 litre</th>
</tr>
</thead>
<tbody>
<tr>
<td>External Dimen.</td>
<td>L 1020 mm</td>
<td>W 730 mm</td>
<td>H 780 mm</td>
<td>L 1330 mm</td>
<td>W 1020 mm</td>
<td>H 1370 mm</td>
</tr>
<tr>
<td></td>
<td>W 1000 mm</td>
<td>H 1040 mm</td>
<td>L 1730 mm</td>
<td>W 1290 mm</td>
<td>H 1380 mm</td>
<td>L 1950 mm</td>
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<tr>
<td></td>
<td>H 2760 mm</td>
<td>L 1360 mm</td>
<td>W 1350 mm</td>
<td>W 1650 mm</td>
<td>H 1650 mm</td>
<td>L 1650 mm</td>
</tr>
</tbody>
</table>

### Internal Dimen.

| I 600 mm        | W 450 mm         | H 375 mm         | H² 538 mm        | I 610 mm         | W 510 mm         | H 455 mm         | H² 625 mm        | I 825 mm         | W 635 mm         | H 610 mm         | H² 810 mm        |
|-----------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
|                 | L 1120 mm        | W 870 mm         | H 760 mm         | H² 1090 mm       | L 1460 mm        | W 1030 mm        | H 700 mm         | H² 1065 mm       | L 210 mm         | W 1460 mm        | H 1000 mm        | H² 1175 mm       |

### Panel Capacity

| 72              | 80               | 132              | 210              | 344              | 516              |

### Power Supply Amp

| 13              | 16               | 16               | 13               | 32               | 3 Phase 380 V 50/60Hz |

### Style

| Type: TableTop  | Type: Floor Mounted |

### Compressed Air

| Type: Clean, dry, oil free Pressure: 2 to 4 bar (30 to 60 psi) Connection: 10 mm ID plastic pipe |
| Flow: 3.5 cfm at 15 psi                       |
| 6 to 8 bar (90 to 120 psi)                   |

The external and internal dimension may vary a few centimeters.

### Optional Accessories

- **Low reservoir alarm.**
- **External salt fog collection vessels.**
- **Salt fog condenser venting system.**
- **Variable humidity - 15%RH to 98%RH with controlled temperature.**
- **Compressor - available for continuous use or stand-by function: high specification, oil free.**
- **Compressor switch - for automatic switch over to stand-by or regular air supply.**
- **De-ioniser & water filters - recommended for areas with hard water or high total dissolved solids (50 mg/litre TDS).**
- **Entry ports - for cable access to monitoring equipment or power induction.**
- **Special racking - to support components/samples in test areas as required.**

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All cabinets are CE marked and have calibration traceable to international standards. Certificates of Conformity are supplied on request. Due to continuous development we reserve the right to introduce improvements and/or modify specifications without prior notice.

C&W Specialist Equipment Ltd. is part of the Inks & Coatings division of Industrial Physics (www.industrialphysics.com).