Zebrafish
The Automated Corrosion Testing Platform

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If you believe that corrosion testing is an area crying out for improvement then zebrafish is the system you’ve been waiting for...

www.cambridgereactordesign.com/zebrafish
What does it do?

The platform can be individually set to give the optimum conditions for examining the impact of the electrochemistry on a test sample. At the click of a button it will perform (pre-programmed) standard tests. With instrumentation from Intertek (our preferred partner), users can perform experiments such as polarisation resistance, cyclic voltammetry and constant potential experiments incorporating user-defined conditions of electrolyte flow rate and temperature.

The electrolyte can be sampled for metal ion content and tests can be carried out using a multiplicity of additives to evaluate accelerated degradation.

In addition to yielding high quality corrosion data a great deal faster than conventional test methods, the high throughput approach enables the evaluation of a more complete range of parameter variables than was previously possible.
Cambridge Reactor Design has developed a generic multi-cell platform (Automated Corrosion Test System) suited to a broad range of industries where high volume testing is necessary as part of fundamental screening, quality assurance and development program.

The Automated Corrosion Test System is high-throughput equipment consisting of independently controlled test cells. A system can comprise of many cells daisy chained together allowing simultaneous testing of samples.

User-friendly software is integral to the system allowing easy collection of system data.
An affordable, high throughput, lab scale system with multiple cell configurations. The zebrafish is an invaluable tool for every lab with a need for corrosion testing.
Operating pressure: Ambient
Operating Temperature: Ambient to 80°C
Accuracy: ±1°C
Electricity Supply: 115V or 230V
Reservoir Capacity (ml): 500
Gear Pump: 316 Stainless Steel and PEEK construction
Flow Cell Examples: Conventional Three Electrode Cell in glass
Conventional Three Electrode Cell in PEEK
Cell Volume: 20 ml
Seals and O Rings: FKM material
Temperature Probes: PT100
Working Electrode Area: 2 cm²
Counter Electrode Area: 2 cm²
Reference Electrode: Ag/AgCl, ¼” diameter

Software Features

Independent temperature and flow control of multiple stations: Included
Graphical representation of all system and process variables: Included
Data logging with Excel compatible output files for reporting: Included
Selectable temperature profiles: Included

For further information on our corrosion products, please call us on +44 (0) 1954 252522
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