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OUT OF BODY EXPERIENCE: MEDICAL DEVICE TESTING AT 98.6° F Controlled Ambient Temperature Testing in an RF Enclosed Environment

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Robson Technologies , Inc. (RTI) introduces *The Phoenix*, a semi custom test fixture that maintains an internal ambient temperature around 98.6°F (37°C) +/- 0.5°F to meet the increasing demand for testing implantable medical devices. The Phoenix' chassis uses three separate compartments to isolate the driving circuitry, heating element, and device under test (DUT). A combination of conduction and convection bring the ambient temperature to precise measurements as high as 110°F. An integrated temperature controller on the front of the fixture provides an easy way to set and monitor the internal temperature during test. Isolating the heating element and using quiet intake and exhaust fans to circulate air through the test chamber allows the device to come to temperature evenly and avoid hot-spots encountered using direct heating.

This fixture offers lots of flexibility at time of design. It's able to accommodate high voltages, include RF shielding, reach a wide temperature range, offer multi-site testing, and use brushless motors to prevent contamination. External connectors can be placed on any side of the box for convenience. Driving circuitry is incorporated into the design, making it a complete stand-alone solution. Even so, the Phoenix is as portable as is it powerful. The chassis is primarily aluminum and can be transported by a single person.

The ability to test high voltage devices at precise temperatures in an isolated RF shielded enclosure sets the Phoenix apart from other thermoelectric chambers in the market today.

