



intelligent Technology Energy Emulator (iTEE)



DCS AWARDS Winner **Data Centre FM Product of the Year 2016**

The **iTEE** is the latest server emulator from [Optimum Data Cooling](#). Combining a redesigned air path with state of the art controls and network capability, the **iTEE** offers the most accurate and reliable test of your data centre's performance and resilience.

The **iTEE** boasts a heat output of up to 4kW, and an airflow volume of up to 1600m³/hr. This means that it can maintain a temperature difference from inlet to outlet of 10°C at full load.

iTEE's sophisticated controls mean that the temperature difference is true and constant, the fan speed modulating automatically to maintain the TD selected for the tests, as a real server would.

iTEEs become even smarter when networked together. Via [OrcaView](#) software, an entire data centre can be tested from your laptop. Heat loads can be changed, Delta T altered, and test start times and durations pre-programmed.

[OrcaView](#) records everything that the **iTEE** monitors – power consumption (so that you can be sure of actual heat loads), fan speeds, air volumes, air on and air off temperatures, and up to 4 additional temperatures per **iTEE** unit.

iTEE is designed and made
in the UK by

Electrical Infrastructure Testing

The **iTEE** tests that your back up power supply can cope with a full load changeover. **iTEE** also incorporates Automatic Transfer Switches, allowing the emulator to maintain full load operation in the event of an “A” or “B” feed power failure



The **iTEE** sets a new standard in server emulation and data centre performance and resilience testing. The **iTEE** offers:

Accurate, Maintained Temperature Differences: step less speed control of efficient backward curved centrifugal fans (that pull air over the heater elements rather than push it) delivers constant TD's based on applied heat loads, exactly emulating server behaviour.

High Power Density: up to 4kW of heat from each 6U **iTEE** unit.

Automatic A/B Feed Changeover: allowing realistic load tests of backup/secondary power supply systems.

Plug and Play networking: daisy chain as many **iTEE** units together as required – set up and run tests on an entire data centre from a laptop.

Full Remote Control and Monitoring: control all the functions of the **iTEE** and examine monitored data without having to enter the test space.

The **iTEE's** Networked Control System is extremely powerful yet simple to use, allowing you to view live data during the test.

500 **iTEE** units can be setup in no more than a few minutes from a PC. Test data is available to review within minutes on completion of a test.

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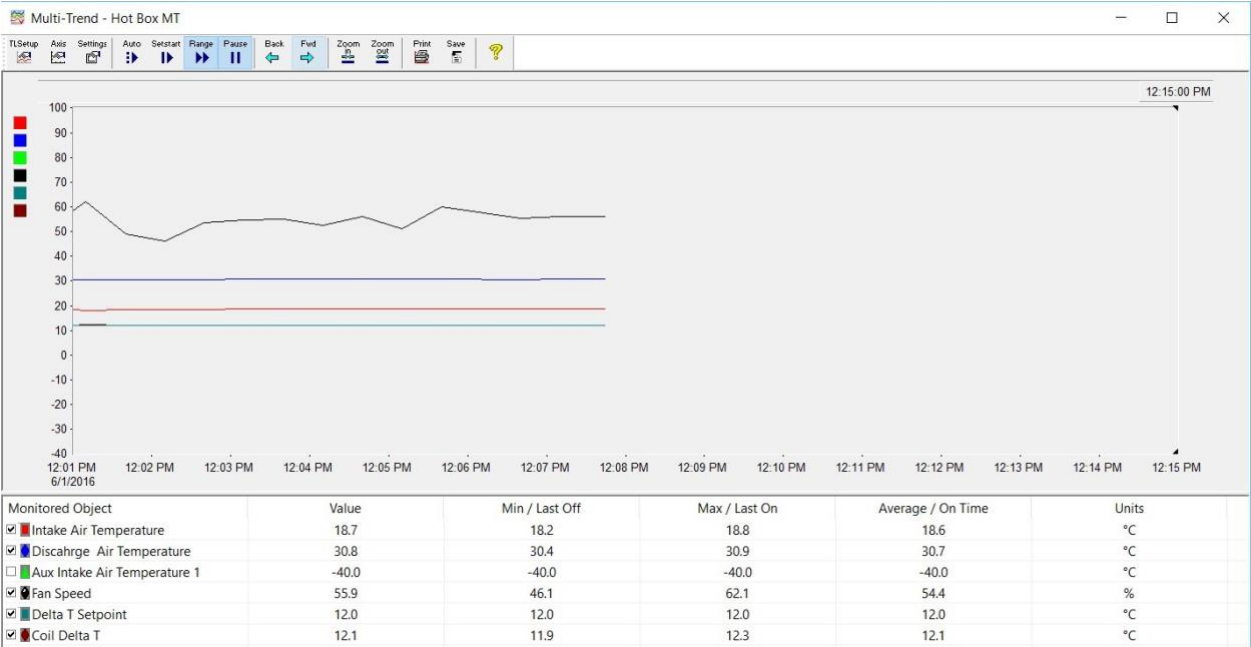
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Sample Graphic of iTEE overview



Sample Trend Log of iTEE unit in operation Live Data



The operating system is simple to navigate with its intuitive design. A right click of a mouse on the data points will reveal the Trend Log for the selected point.

From just one screen you can see all the points monitored and controlled by the iTEE

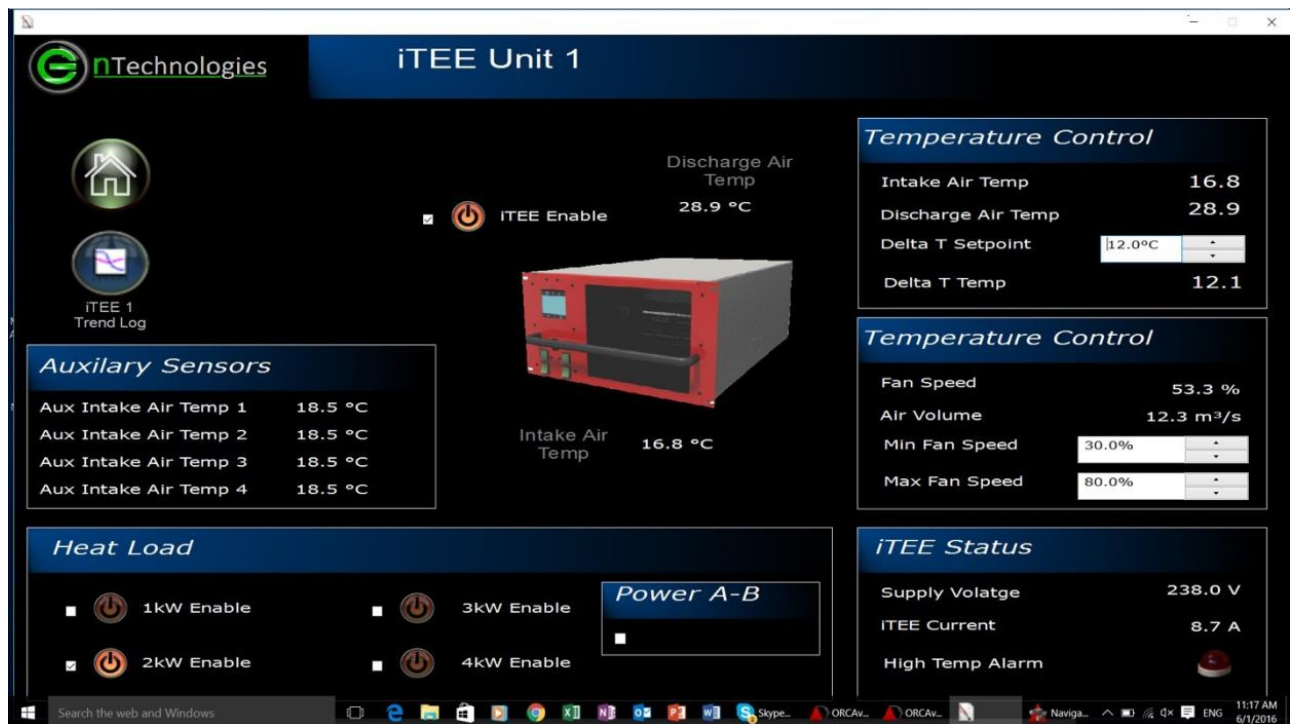
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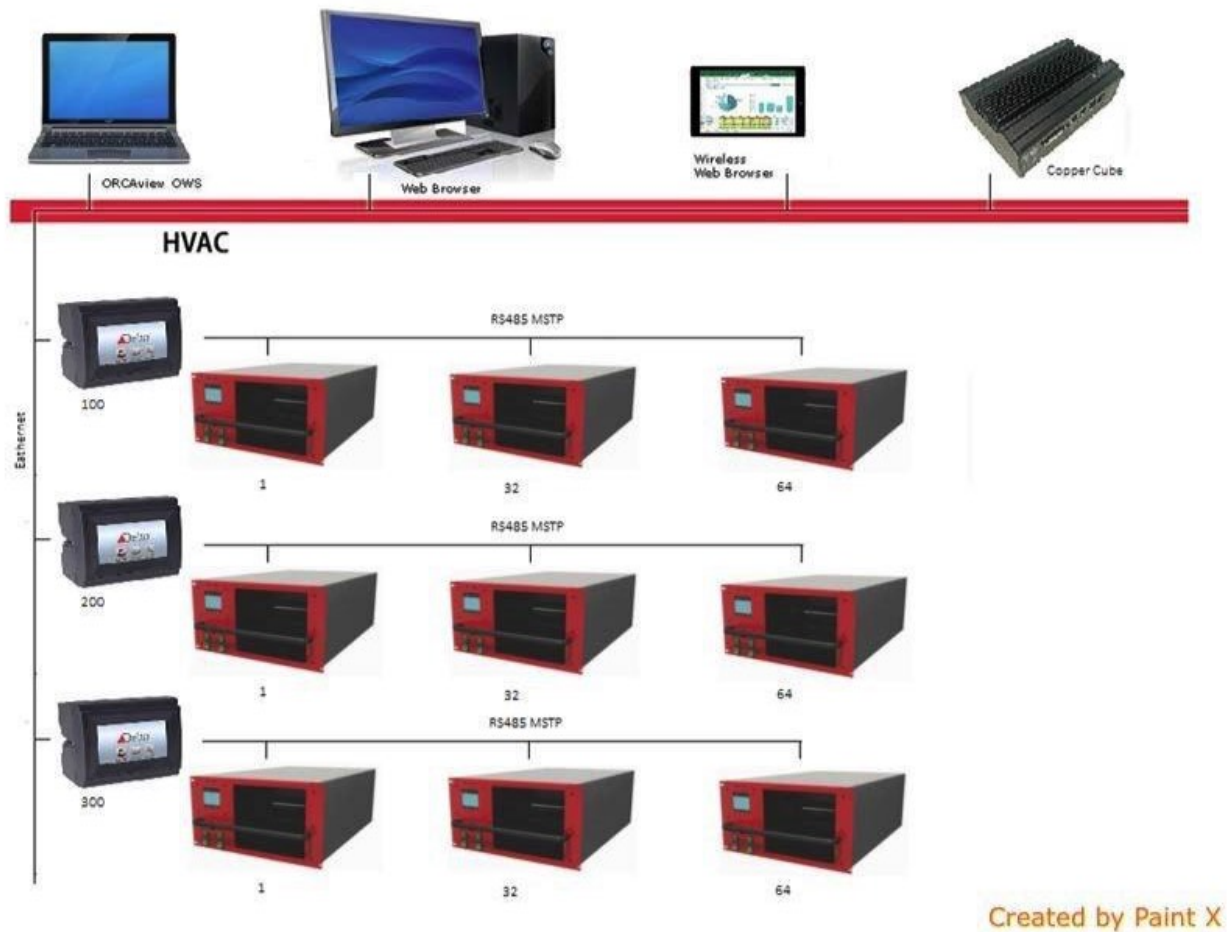


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Network Topology

The World's Most Advanced Server Emulator



Technical Specification

- 230V AC Dual feed via C20 Sockets (A & B Changeover)
- 4 kW heat output 1 to 4 kW selectable loads
- Delta T from 8 -18°C • Air flow 160-1600m³/hr.
- Up to 4 additional temperature sensors can be added for hot spot monitoring
- Trend logs of every point
- Graphical user interface for easy operation.
- Alarm notification on parameter upper and lower limits
- A detailed report can be retrieved from each iTEE unit on completion of a test.

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