

PRESS RELEASE

Unitemp Announces UK Availability of ESPEC's New Deep-Capacity HAST Chamber for Large PCB Reliability Testing



A new deep-capacity Highly Accelerated Stress Test (HAST) chamber capable of accommodating large multilayer PCBs and high specimen volumes is now available in the UK, as Unitemp introduces ESPEC's latest model, the EHS-222M-L. The latest HAST chamber is designed specifically for organisations needing to accelerate reliability testing for AI semiconductors, data-centre hardware, autonomous-driving electronics and other high-density applications.

HAST systems apply high temperature, high humidity and pressure simultaneously to compress reliability testing timelines and expose failure modes far earlier in development. As components become more compact and performance-intensive, manufacturers increasingly require chambers that can handle larger assemblies and higher specimen counts without compromising test conditions. The EHS-222M-L addresses this shift with a 200 mm increase in internal depth, allowing large boards such as 290 × 460 mm and 220 × 470 mm to be tested alongside multiple jigs in a single run. The model also expands the number of available signal terminals for bias testing, increasing capacity from the standard 36 pins (up to 60) to 120 pins at up to 1,000 V. This enables more complex and higher-volume testing, supporting the statistically significant datasets required for modern reliability programmes.

The system's jig and terminal configurations can be customised to suit individual applications, drawing on ESPEC's extensive experience in jig design, component selection

and structural engineering. A connector-block approach removes the need for soldering and manual terminal checks, simplifying wiring and improving day-to-day work efficiency.

The EHS-222M-L operates within a temperature range of +105.0 to +142.9°C, a humidity range of 75 to 100% rh and a pressure range of 0.019 to 0.193 MPa (Gauge). Internal dimensions are $\phi 394 \times D626$ mm, with external dimensions of $W1000 \times H1713 \times D1200$ mm.

The new model strengthens ESPEC's offering for manufacturers working at the forefront of AI, automotive electronics and other advanced technologies, where rapid development cycles and high reliability expectations demand larger, more flexible and more capable HAST systems. Unitemp now supplies the EHS-222M-L to UK customers, supported by local technical expertise and service.

About ESPEC

ESPEC Corporation is a global leader in the design, manufacture, and support of environmental test chambers and advanced testing solutions. With a commitment to innovation and customer satisfaction, ESPEC delivers reliable and high-performance products for various industries worldwide.

About Unitemp

Unitemp is the exclusive UK distributor for ESPEC, offering a comprehensive range of environmental test chambers and solutions tailored to meet the diverse needs of its customers. With a focus on quality and customer service, Unitemp provides expert guidance and support throughout the testing process.

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