

Flexstar 30E Environmental Tester

Flexibility, accuracy and repeatability in environmental testing

- Tight temperature and humidity control
- Powerful and flexible test software
- Comprehensive test solution for storage devices

Flexstar environmental test systems deliver accurate testing with consistency over the widest range of temperature and humidity. The well-proven Flexstar software simplifies testing with a familiar GUI and the ability to easily create and modify test scripts with no programming expertise required.

The system was engineered to provide uniformity of airflow to minimize temperature gradients within the chamber. The chamber can be controlled from -34°C to +100°C with RH from 5% to 95% between 9°C and 85°C.

The combination of the Flexstar software, single board computer and network power margin board provides the bandwidth and flexibility to be able to handle the fastest drives at maximum speed.

Individual drive ports may be programmed to run different tests at the same time. Failed drives can be debugged in place while the tests continue to run and serial port data capture capability enables access to the device under test even if the interface is not responding.

The Flexstar 30E tester supports all of the industry-standard storage device interfaces, including Fibre Channel, SCSI, SAS, FireWire, SATA, PATA, CE-ATA, ATAPI and USB. The anti-vibration fixtures can be specified for any form factor.

The Flexstar advanced environmental testers enable flexible, accurate and repeatable mass environmental testing for any storage device.



Product Specifications

Input Power Requirements

- Voltage: 208 to 230V AC @ 70A single phase, 50A three phase
- Frequency: 50 to 60Hz

Mechanical

- Exterior Dimensions: 69" x 49" x 81" (175cm x 124cm x 206cm)
- Weight: 2100 lbs (953 kg)
- Chamber:
 - Two towers at 10" x 12" x 48" (25.4cm x 30.5cm x 122 cm)
 - Capacity: 30 x 5.25" and smaller, 60 x 2.5" and smaller, 72 x 1.8" and smaller

Environmental

- Temperature range: -34°C to + 100°C
- Chamber consistency: +/- 2°C

Power Margining

- Current measurement range: 0 to 5 amps with 0.6 milliamps resolution
- Current measurement accuracy: +/- 1% of full scale
- Voltage measurement range: 0 to 15V with 3.6 mV resolution
- Voltage measurement read back accuracy: +/- 0.5% of full scale
- Power sampling: Up to 4096 samples for each channel
- Power sampling rate: 1 to 255 milliseconds in 1 millisecond increments
- On-board memory for power sampling data acquisition

Key Features

- Thermal control from +100°C to -50°C
- Relative Humidity control from 5 to 95% RH
- Optional heated window 22.5" x 46.5" (57cm x 118cm)
- Built-in LCD monitor and keyboard shelf
- Seek timing tests: 1 track, 1/3 stroke, maximum track, and average seeks
- Independent 5V and 12V voltage margining programmable via the test script
- Easy software upgrades via the remote boot architecture
- Read / Write testing with variable data patterns
- Comprehensive parametric testing
- Oven control and synchronization via the test script

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