

# StressMaster-2

## Thermal Stress Screening system



### StressMaster-2

- **HALT and HASS applications**
- **Maximises product stress**
- **Powerful airflow**
- **Wide temperature range**
- **Air direction control**
- **Full safety features**
- **Economical operation**

### *Options*

- *Product temperature control*
- *Product carriers & fixturing*
- *Feed-through backplane*
- *Load carriers*
- *Power supplies*
- *Computer control and monitoring*

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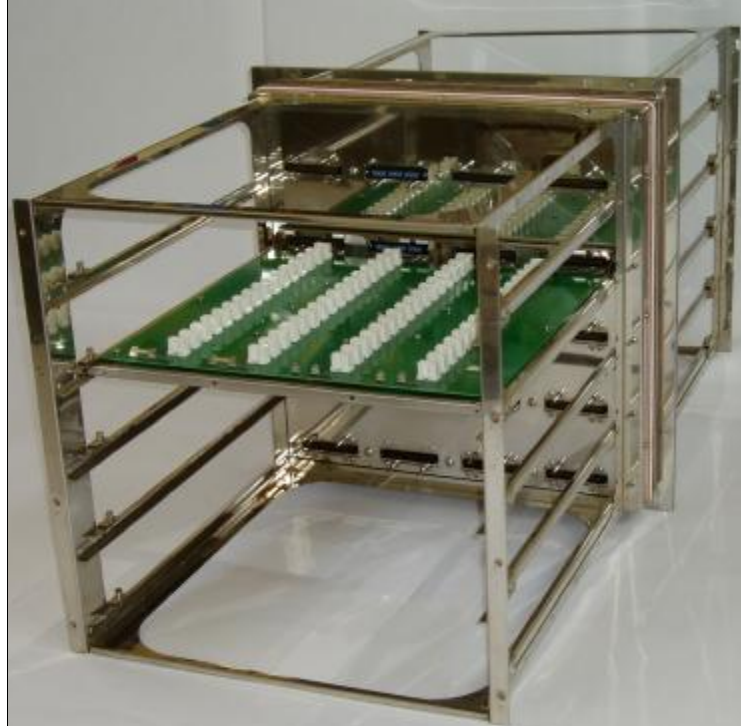
The StressMaster-2 is a purpose designed Thermal Stress Screening chamber, featuring powerful heating and cooling systems.

High, evenly distributed, airflow ensures excellent thermal coupling to the products, while keeping fan power low for economical running. The airflow can be further enhanced for small products using the built-in air deflectors.

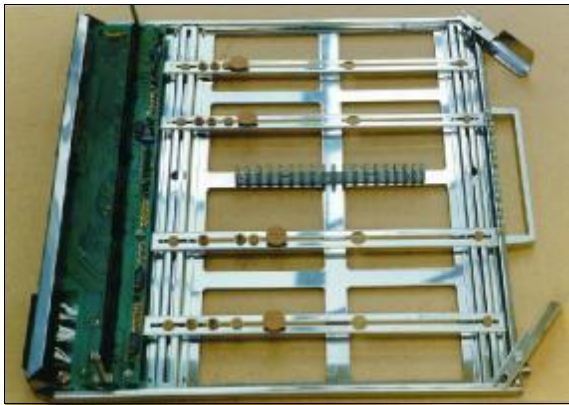
Temperature control directly from the product can be used to further increase ramp rates by maximising the air to product temperature difference. The maximum and minimum product and air temperatures can be set by the operator to avoid product over-stress.

**The StressMaster-2 exceeds the guidelines for TSS chamber performance recommended by the Society of Environmental Engineers (SEE).**

Comprehensive safety features ensure operator, product and system protection, including temperature controlled access, and an oxygen level monitor (LN2 systems only)



StressMaster feed-through backplane with product and load carrier frames



StressMaster  
Universal  
Product  
Carrier

## Monitored Stress Screening

The StressMaster-2 chamber can be easily configured for powering up products, with full computer control and monitoring if required.

Product monitoring enables product failures to be detected during temperature cycling, allowing the thermal screen to be optimised for maximum cost effectiveness.

The standard StressMaster inner frame and product carriers can be used on its own to increase product capacity, or with the feed-through backplane and load

<b>StressMaster-2</b>	Model
	<b>Liquid Nitrogen cooled</b>
Temperature range	-100 to +200°C
Thermal ramp rate (max)	+/- 50°C/min
Internal size	600 x 600 x 600 mm
External size	1810h x 1560w x 980d mm
LN2 pressure	2 bar
Air speed (av)	>5m/sec
<b>Non-standard systems are available to special order</b>	

## Cooling options:

Liquid nitrogen (LN2) is used to cool standard chambers to ensure maximum thermal ramp rates, and flexible operation.

Compressor cooled models are also available to special order. These have reduced cooling rates but are more economical for long runs.

Combined systems can also be provided. These use mechanical cooling for economy during dwells, but have LN2 boost for rapid cooling ramps.

Chamber performance is dependent on product loading.

Agent:



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