



# HFC-100™

HEAT FLUX CONTROLLER



The Heat Flux Controller™ is a high heat flux chip simulator capable of measuring and controlling the amount of heat in a resistive element. The HFC-100™ comes with a chip simulator capable of dissipating 1k /cm<sup>2</sup>. The design of the heater block insures minimal heat loss to the ambient, hence a more accurate thermal resistance determination of either heat sinks or cold plates.

This system features ATS proprietary fluxSTAGE™, a LabView™ application, which automates the use of the system and allows the user to choose multiple heat loads at a specific dwell time. The program calculates the thermal resistance of the cold plate for desired cooling of the die and measures the simulated junctions temperature.



Illustration of the HFC-100 Heat Flux Controller with simulated chip capable of dissipating 1 kW of heat over 1 cm<sup>2</sup>.

**OVERALL DIMENSIONS (L X W X H)**

55.9 cm x 42.5 cm x 8.8 cm  
(22" x 16.7" x 3.5")

**OUTPUT POWER**

Up to 1 kW

**OUTPUT VOLTAGE**

Up to 40 VDC

**INPUT POWER**

115 VAC

**PC CONNECTION**

USB

**SOFTWARE**

fluxSTAGE™

**FEATURES:**

» **Automated Calculation**

Automatically calculates the total thermal resistance of heat sink, cold plate or of cooling device

» **High Heat Flux Chip Simulator**

Simulated chip is capable of dissipating 1 kW of over 1 cm<sup>2</sup>

» **Versatile Measurement**

Capable of transient steady state and transient measurements

» **Up to 8 Sensors**

Can accommodate up to eight thermocouple sensors for precise temperature measurement

» **Dynamic Control**

Features dynamic control of the simulated chip's power dissipation

» **Dynamic Measurement**

Dynamically measures the resistance of the heating element for accurate dissipation calculation

» **fluxSTAGE™ Software**

Features ATS' fluxSTAGE™ application which automates the use of the system and allows the user to choose multiple heat loads at a specific dwell time

» **Automatic Shut-off**

Automaticall shuts if the heater temperature rises above the user defined protocol

**For further technical information, please contact Advanced Thermal Solutions, Inc. at 1-781-769-2800 or [www.qats.com](http://www.qats.com)**



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