



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 /cm². 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 cm².

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 cm²

» 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



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