



# iFLOW-200™

MEASURE THE THERMAL & HYDRAULIC PERFORMANCE OF COLD PLATES



## FEATURES & BENEFITS

- » iFLOW-200™ measures a cold plate's inlet/outlet fluid temperature, surface temperature, coolant volumetric flow rate and pressure drop by providing different flow rates to the cold plate.
- » iFLOW-200™ measures coolant temperature from 0-70°C with accuracy of +/-1°C, using K-type thermocouples. Distilled water is used as the reference coolant.
- » iFLOW-200™ measures cold plate differential pressure up to 103,000 Pa (15 psi) with pressure measurement of +/-1% of full scale.
- » iFLOW-200™ features a separate control box and hydraulics units with USB connections.
- » iFLOW-200™ includes user-friendly **coolingVIEW™** application software that automates the testing of a cold plate by setting the required parameters.
- » iFLOW-200™ software, **coolingVIEW™**, calculates thermal resistance and pressure drop of the cold plate as a function of flow rate for selected liquids other than distilled water.

The iFLOW-200™ system measures the thermal and hydraulic characteristics of a cold plate. It replaces the complex process of varying the volumetric flow rate of the coolant, and measuring the pressure drop and temperature of the cold plate. iFLOW-200™ users simply set up the starting flow, ending flow, number of test points, dwell time, power applied to the cold plate and other parameters in the **coolingVIEW™** software and run the application.

### OVERALL DIMENSIONS (D x W x H)

365 mm x 425 mm x 120 mm

### MAXIMUM VOLUMETRIC FLOW RATE

4.5 liter/min

### FLOW TEMPERATURE RANGE

0 to 70 °C

### SURFACE TEMPERATURE RANGE

0 to 200 °C

### DIFFERENTIAL PRESSURE RANGE

+/- 103,000 Pa(15 psi)

### PRESSURE ACCURACY

+/- 1% of full scale

### TEMPERATURE ACCURACY

+/- 1 °C

### FLOW RATE ACCURACY

+/-1% of full scale

### SOFTWARE

coolingVIEW™

## FEATURES:



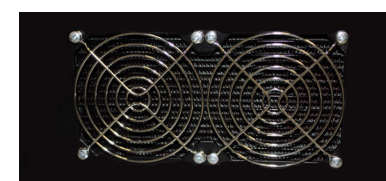
### FLUID LEVEL INDICATOR



### INLET/OUTLET OF THE COLD PLATE



### SENSOR PORTS



### COOLING SYSTEM FOR THE INTERNAL HEAT EXCHANGER

## APPLICATION DOMAIN

- » Evaluating and troubleshooting different cold plate models
- » Simulating different applications and conditions
- » Optimizing flow and thermal performance
- » Testing alternative liquids
- » **Free Lifetime Tech Support**

For further technical information, please contact Advanced Thermal Solutions, Inc. at **1-781-769-2800** or **www.qats.com**

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