

CIP-1000™

CONTROLLABLE ISOTHERMAL PLATE SYSTEM FOR A HIGHLY ACCURATE, ADJUSTABLE HEAT SOURCE

The CIP-1000, is Controllable Isothermal Plate is a system for providing an isothermal surface that can be precisely temperature-controlled from 10 to 170°C with an accuracy of +/- 0.1°C.

The CIP-1000 system features a 75 mm diameter isothermal copper plate whose constant temperature can be raised or lowered both automatically and manually. A three wire RTD sensor and integral PID controller ensure specific, uniform temperature across the entire plate.

The laboratory-quality CIP-1000 system includes a separate controller unit that allows both pre-programmed and hands-on temperature management. The controller communicates with a PC through a choice of either a USB or RS232 connection. The included stageTHERM™ software allows easy temperature variation of the isothermal plate for testing and other applications. Different plate temperature settings can be programmed for automated ramping, including hold times for each step. Alternatively, the temperature of the plate can be manually adjusted in increments as small as 0.1°C using the system's digital controls.

Time and temperature data are accurately recorded and can be downloaded or viewed in easy to read graphs and tables. If needed, the CIP-1000 plate is easily removable for rework, surface treatment, attaching DUT and other such tests. The system can also be customized for special applications including larger plates and different temperature ranges.

The CIP-1000 system can be used in a wide range of applications, including component and environmental testing, product development, quality control and life science studies.



Controller



Front



Bottom

SENSOR TYPE

Three-wire 100 Ohm RTD

SURFACE TEMPERATURE RANGE

10°C to 170°C

CONTROLLER ENVIRONMENTAL TEMPERATURE

0 to 50°C

LONG TERM TEMPERATURE STABILITY

Less than 0.002°C

DISPLAY RESOLUTION

Less than 0.1°C

CONTROLLER DIMENSIONS (L X W X H)

269.25 mm x 182.9 x 124.45 mm
(10.6" x 7.2" x 4.9")

PLATE ASSEMBLY DIMENSIONS

114.5 mm x 78.75 mm (4.5" x 3.1")

PC CONNECTIONS

USB, RS232

POWER

115/230 VAC, 50-60 Hz

FEATURES:

- » **Wide Temperature Range**
Produces surface temperatures from 10°C to 170°C
- » **Highly Accurate Control**
Temperature can be controlled to less than 0.1°C display resolution
- » **Fully Programmable**
Plate temperature settings can be programmed for automated ramping, including hold times for each step
- » **Removable Copper Plate**
CIP-1000 plate is easily removable for rework, surface treatment, attaching DUT and other such tests
- » **PID Control**
Unipolar or bipolar, PID control with auto-tuning capability

APPLICATIONS:

- » **Telecommunications**
- » **Automotive**
- » **Medical Instrumentation**
- » **Thermal Management**
- » **Pharmaceuticals**
- » **Chemical**
- » **University Research**

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