Technical Datasheet

# iQ-PHASE THERMAL FORCING SYSTEM

## CUTTING EDGE. PROVEN. PRECISE.

With its superior power handling and precision control, the iQ System is designed for optimum temperature forcing. It's unique combination of proven methodologies and cutting-edge heat transfer technology can be expertly customized, no matter what your IC needs.

## IQ-PHASE THERMAL FORCING SYSTEM

iQ-Phase Thermal Management System is designed with performance and flexibility in mind, allowing for customization to suit different package and interface variations. The system allows for temperature forcing across a wide range of devices sizes and types, whether socketed or soldered down.

The well-proven, thermal head methodology coupled with the cutting edge liquid-less phase change heat transfer technology creates a very quiet, portable and fast stabilization thermal control environment. The vertically actuating thermal heads makes direct contact with your IC providing for far superior power handling and precision control over other thermal control methods.

## BENEFITS

- -55°C to 250°C
- Completely self-contained liquid free operation
- All packages types
- Adapts to most sockets and boards
- Very quiet operation (<40dB)
- Small footprint
- Portable and rack mountable
- Worldwide power
- Residue free contact with DUT
- ECO Friendly lowest power consumption thermal forcing system

## APPLICATIONS

- Temperature Forcing
- Thermal Stream Replacement
- High Reliability Testing
- ATE, SLT and Bench
- OEM Integrations

## System Specifications For Operating

| Category | Value |
|---|---|
| Temperature Range | -55 to 250°C |
| Accuracy | ±0.3°C |
| Transition Rate | Up to 70°C/min (Ramp rate controllable) |
| Actuation Type | Z-Axis Lid Integrated |
| Actuation Force | Up to 55kg |
| Remote Sensor Types | 2-Type K Thermocouple Ports, Thermal Diode |

## System Specifications For Environment/ Facilities

| Category | Value |
|---|---|
| Operating Temperatures | -10°C to ±45° (Non-condensing) |
| Power | 100V to 240V AC 50/60Hz 6A MAX (100V) |
| Plus | 59mm x 50mm 59mm |
| Thermal Head Weight | Approx. 1kg |
| Controller to Thermal Head Distance | Approximately 2.5m |

## System Specifications For Mechanical

| Category | Value |
|---|---|
| Controller Size WxHxD | 480mm x 130mm x 400mm |
| Controller Weight | Approx. 15kg |
| Thermal Head Size WxHxD | 59mm x 50mm 59mm |
| Thermal Head Weight | Approx. 1kg |
| Controller to Thermal Head Distance | Approximately 2.5m |

## Data / Communications

| Category | Value |
|---|---|
| USB | Type B |
| Ethernet TCP/IP | RJ-45 |
| Touch Screen Display | 110mm Ruggidized LCD |

**DIAGRAMS**