



**The Next Generation Thermal Test Performance  
A New Generation of Excellent Customer Service**

**Did you know**  
*thermal conductivity increases linearly with*  
**clamping force?**

**The Ultimate in Thermal Transfer**  
**Heavy Duty Clamp System**  
**Over 1000 Pounds of force**



**Reinforced SD49NC-A  
Thermal Platform System**

- Optional electrically conductive surface
- Excellent access to DUT
- Rugged Stainless Steel chassis
- Optional Dual Heavy Duty Clamp System

**TotalTemp Thermal Platforms are all capable of being reinforced for the  
Heavy Duty Clamp System**

**Thermal Platform Models - Six Standard Sizes**

**Model # SD14**

3.75" x 3.75" usable surface area (14 sq. in / 90 sq cm)

**Model # SD49**

6.5" x 7.5" usable surface area (49 sq in / 316 sq cm)

**Model # SD98**

6.5" x 15" usable surface area (98 sq in / 632 sq cm)

**Model # SD144**

12" x 12" usable surface area (144 sq in / 929 sq cm)

**Model # SD288**

12" x 24" usable surface area (288 sq in / 1858 sq cm)

**Model # SD450**

18" x 25" usable surface area (450 sq in / 2903 sq cm)

**Coolant choices**

**L-N<sub>2</sub>** -100°C , High or Low Pressure

**L-CO<sub>2</sub>** -65°C , High or Low Pressure

**Refrigeration Compressor**

-40°C with Single Stage

Consult factory for lower temperatures  
or recirculating circuit systems

*TotalTemp often custom designs Thermal Platforms Systems for specific applications*

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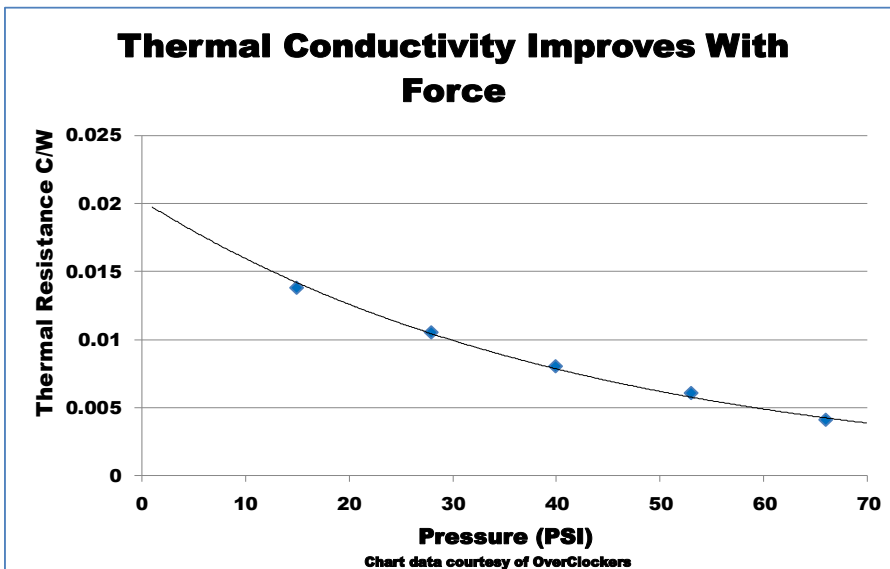


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## Heavy Duty Clamp (HDC) Systems The Ultimate in Thermal Transfer Efficiency

The more tightly clamped two surfaces are together, the better heat transfer. It is especially important when transferring large amounts of heat from one device to another. The chart shows the thermal resistance decreases when an increase of pressure is applied.



Above the SD144NC-A, SD49NC-A and Dual Synergy Nano Controllers in 19" Rack. HDC was designed to thermally simulate welded RF packages with clamping force.

### MORE OPTIONS & ACCESSORIES

- Fast DUT throughput Hybrid Chamber
- Redundant failsafe Limit Controller
- Independent Limit Controller
- Adapter plates
- Dry Nitrogen purge
- Conditioned Dry Nitrogen purge
- Cryogenic L-N<sub>2</sub> & L-CO<sub>2</sub> delivery hoses
- DUT sensors
- 16 Channel Thermocouple Monitor
- Temperature Sensor Terminal Blocks
- Retrofit Controllers
- Purge box, Probing cover, custom configurations
- Super Quiet Exhaust Muffler
- Programmable Hot/Cold Warning Lights (Nano only)
- Light weight DUT Clamping
- Extended Temperature Ranges
- O<sub>2</sub> monitoring sensor for lab safety
- PRV or pressure reducing valves for L-N<sub>2</sub>
- Easy to use Controller options (Nano only)  
Web Server, GPIB, cascade control

— *Our controllers can be configured as a retrofit for other manufacturers systems* —