

## Affinity® Thermal Control Products from Lydall

Lydall Affinity® thermal control solutions are designed and built to your manufacturing specifications, and are focused on reducing energy consumption. High-performance refrigerated and non-refrigerated chillers, and heating systems in compact, modular and user-friendly designs, deliver process temperature ranges of -80°C to +200°C.

Innovative, modular design.

Reliable performance.

Flexible applications.

# Thermoelectric Chiller *for Plasma Etch Processes*

*As chip feature size and complexity continue to grow, process parameters will require tighter control and reduced process impact to meet ever evolving technology demands.*

Lydall Industrial Thermal Solutions is proud to **announce a new line of products** to enable future process requirements capable of tighter temperature stability control, which significantly reduces process variability from wafer-to-wafer.

### System Features

- Thermoelectric (TE) technology delivers 5x temperature control/stability
- Fast, proactive temperature control to thermal load changes
- 10X less power required than equivalent refrigerated chiller for typical etch process
- Over 3X smaller size and weight
- Over 2X improved MTBF, only two moving parts: pump and cooling fan

### Customer Benefits

- +/- 0.03°C @ constant load; +/- 0.2°C @ 500 W cyclic load
- Eliminates first wafer effect and greatly improves wafer-to-wafer process repeatability
- Over \$4,500 annual savings; 4.2KW annual power savings and lowest CoO
- 19" Rack mount; 3 or 6 Bay Cabinet reduces fab footprint many times over
- System reliability > 61,750 MTBF hrs based upon installed base



Now you have a choice.

[www.lydallaffinity.com](http://www.lydallaffinity.com)

