



## Macrosonix Inc. Variable Capacity Oilless Vapor Compression Cooling Unit

### Key Goals and Accomplishments

Variable capacity vapor compression cooling for computer servers.

Oilless operation for variable capacity and orientation, handling.

Modular capacity matched to server expansion.

### Approach and Key Tools

Concept Generation: vibration isolation and refrigeration pressure balance (acoustically vented diaphragm).

DOE experimental optimization.

### Results and Recognition

Create variable capacity custom OEM cooler product line.

ITHERM industry conference Best in Session research in collaboration with HP partner.