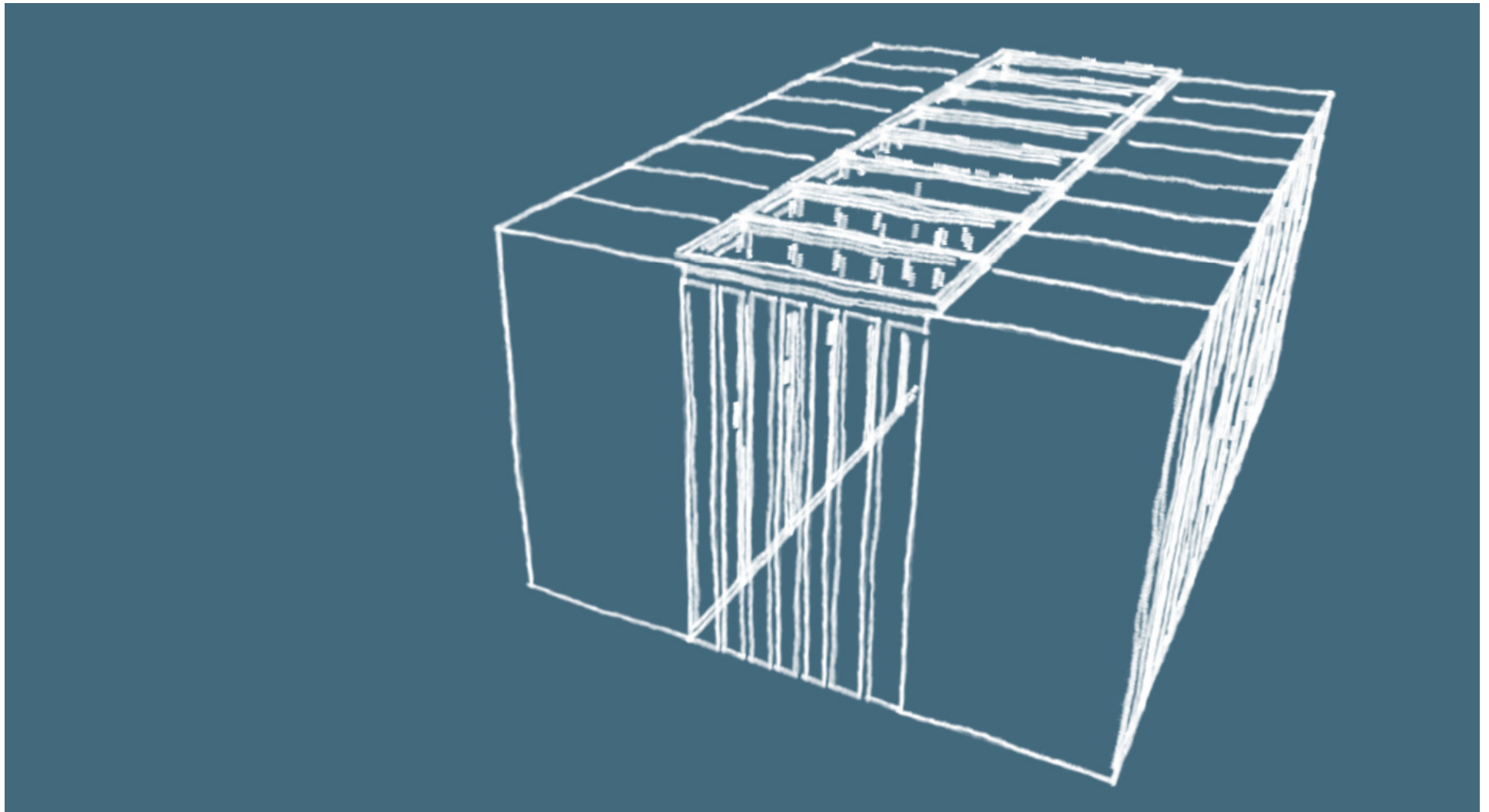


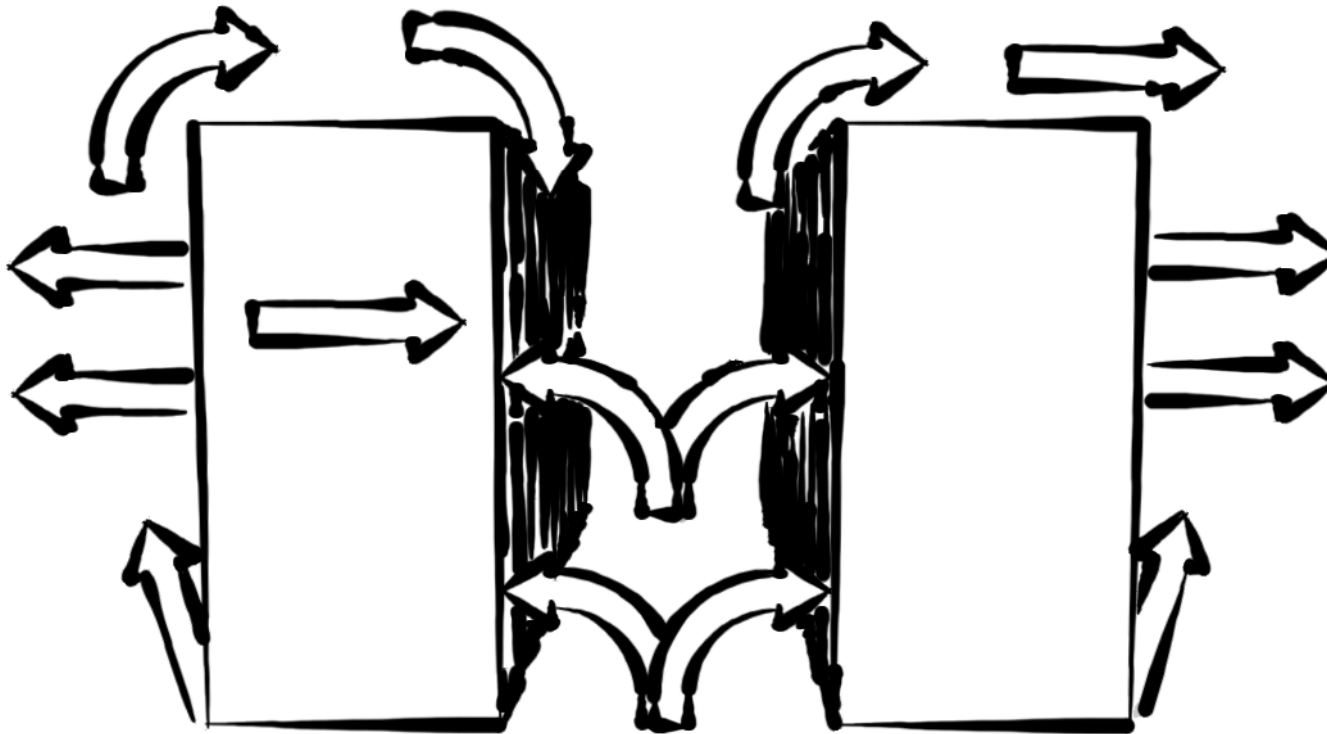
Cold Aisle Containment

A Brief Overview for Data Centers



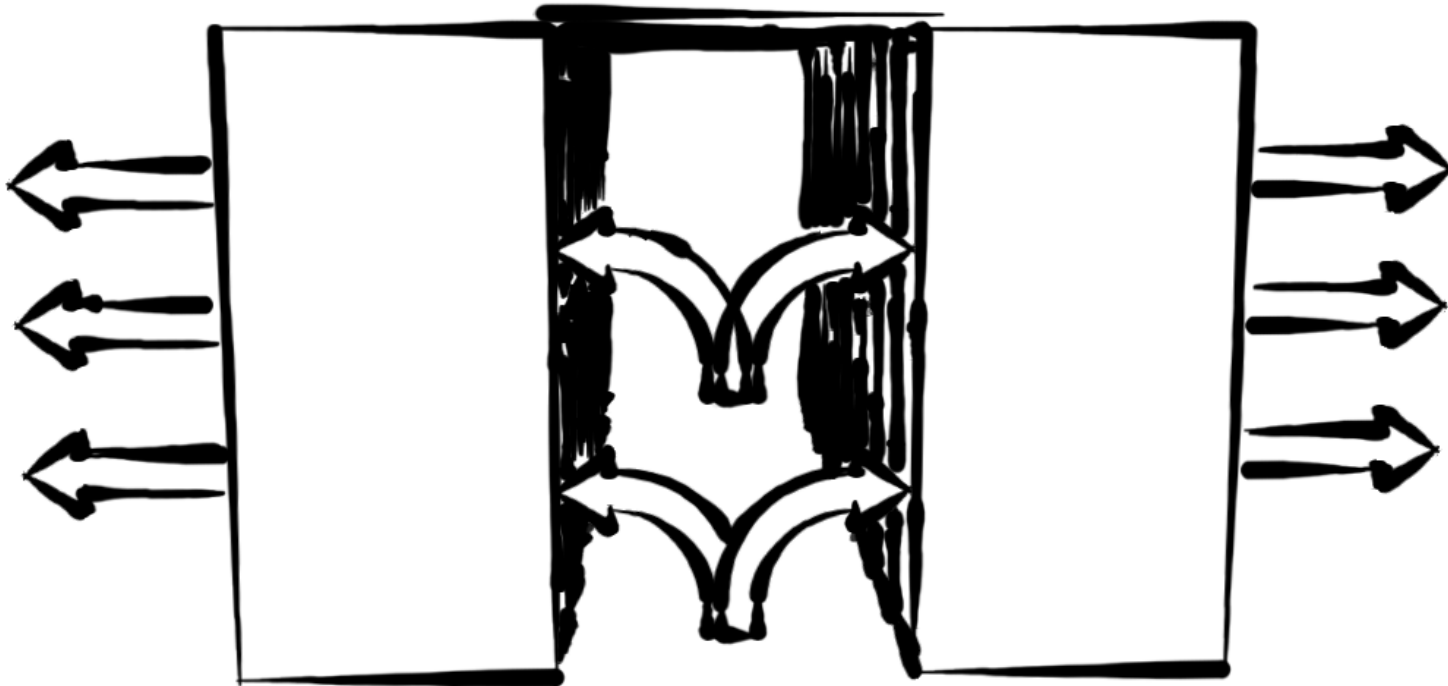
Air Mixing Lowers Delta-T

- Cooling efficiency suffers
- Capacity unnecessarily limited



Containment Stops Mixing

- Cooling efficiency surges
- Capacity expands



Containment is Today's Low Hanging Fruit

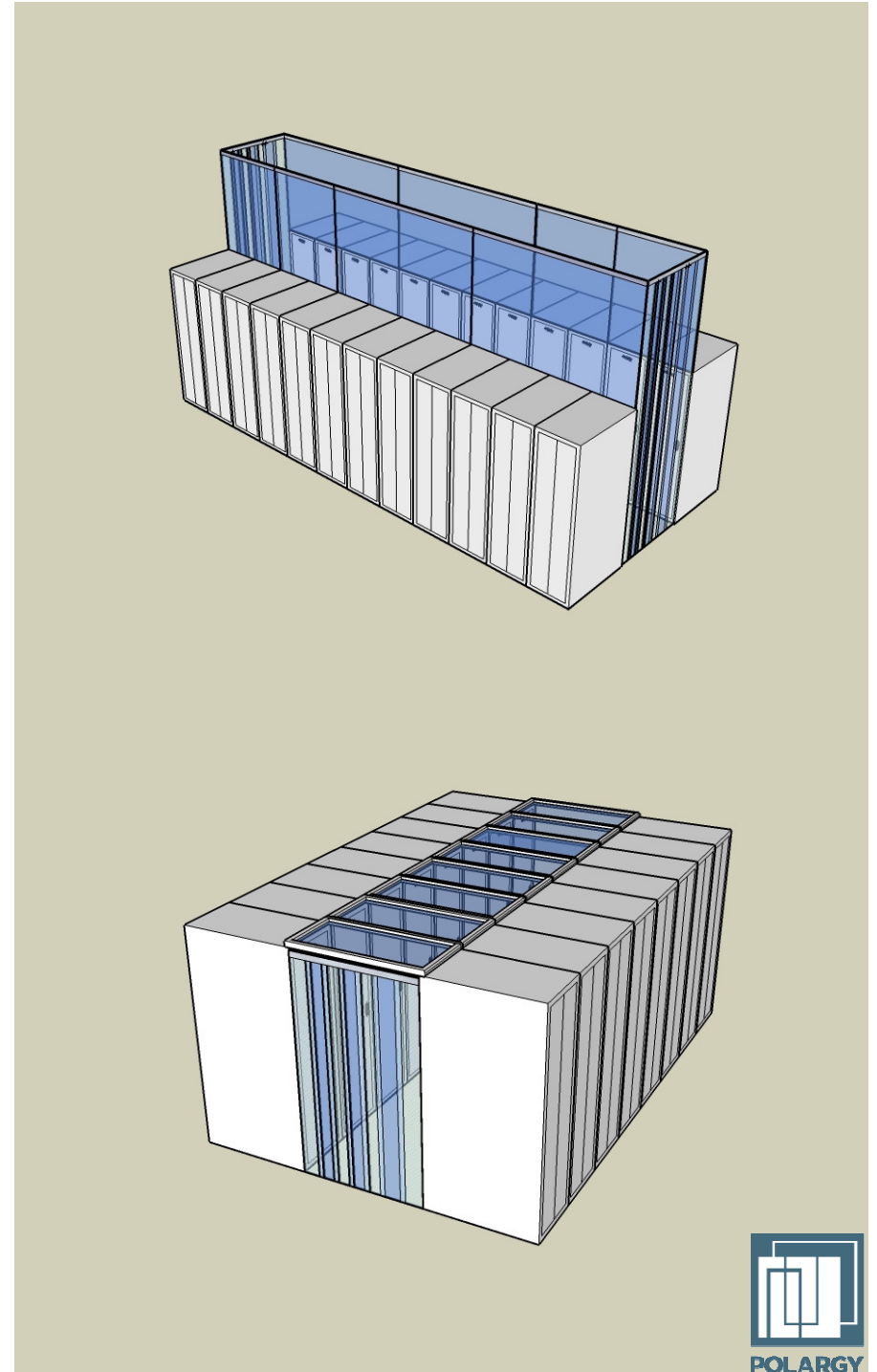


- **Immediate results**
- **Only days to implement**
- **ROIs less than a year**
- **Green IT**

What is Containment?

Placing isolation barriers at the front, back, and top of the aisles to eliminate cold air loss and to stop hot air from penetrating into the cold aisle.

The reduction in air mixing increases the return air temperature to the CRAC units, raising the delta-T across them which results in more efficient cooling. The isolation also eliminates hot spots and makes the supply air temperature more uniform across the server inlets. This increases reliability while allowing the supply air set points to be safely increased.





**Strip Curtains
for Doors**

**Soft Panels
for Above Racks**



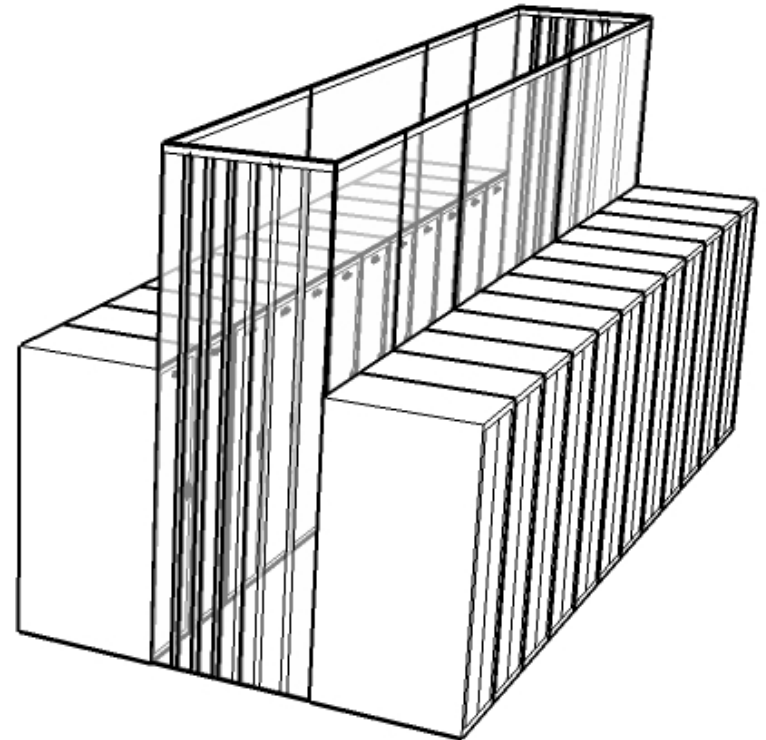
Rigid Panels for Across Aisles



POLARGY

Compelling ROI

- Payback typically less than a year
- Immediately turn off CRAC units
- Variable speed fans run slower
- Reduce heat related failures
- Eliminate unnecessary re-humidification
- Increase CRAC set points
- Increase chilled water set points
- Increase the amount of economizer usage time
- Extend the data center's life



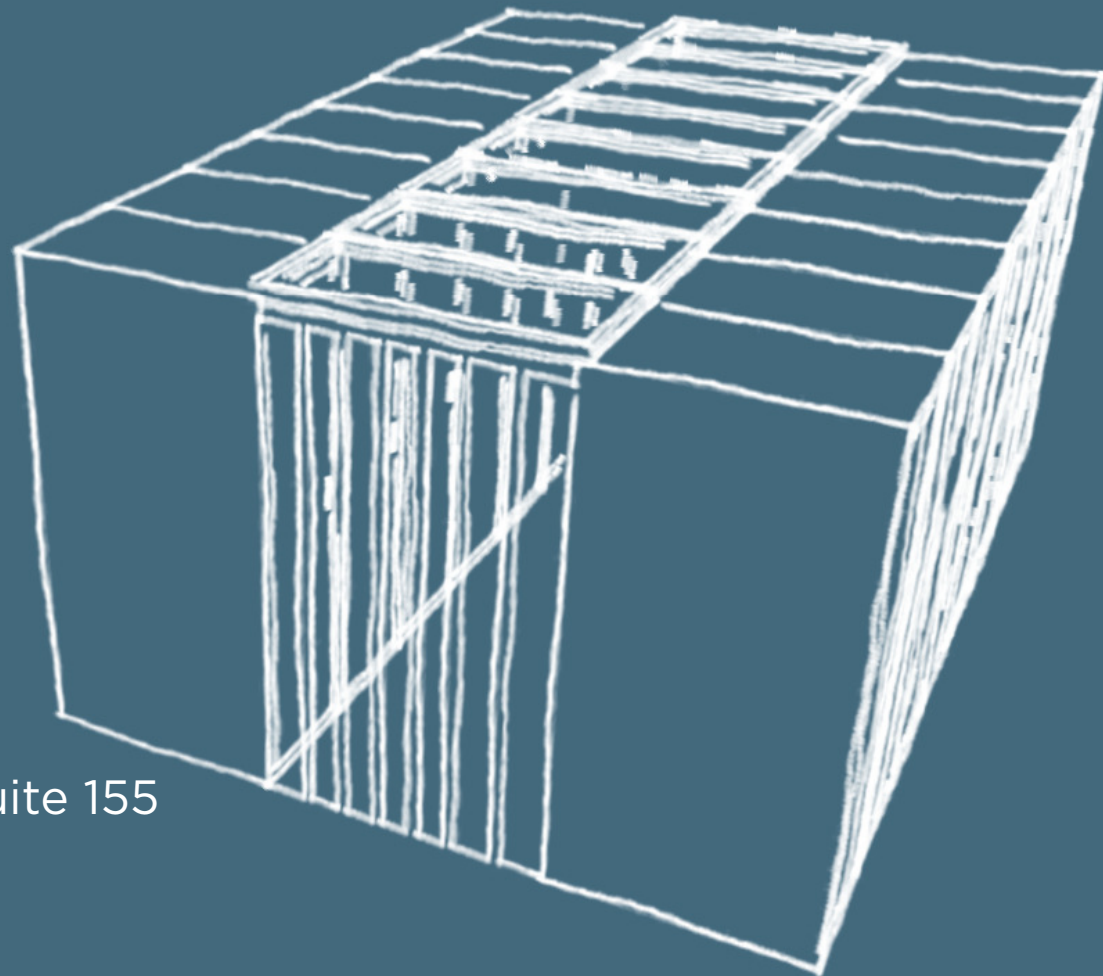


Power Utilities

Offering 25% to 80% incentive payment or rebate on project costs



WWW.POLARGY.COM



Polargy, Inc.
256 Gibraltar Drive, Suite 155
Sunnyvale, CA 94089
888.816.8338