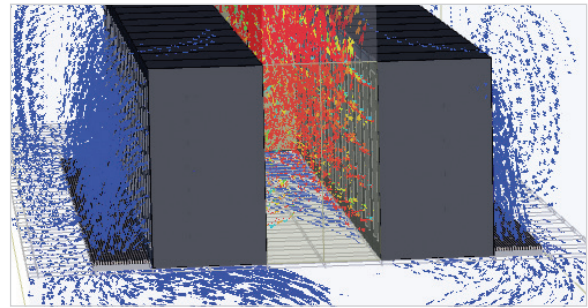


C D

+ CONTAINMENT DESIGNS

Implementing best practices is the first step in achieving energy efficiency; however, building physical barriers around hot or cold aisles to create a containment solution further improves data center airflow. The complete separation of the hot and cold aisle has been shown to improve equipment reliability, increase cooling capacity, and in most cases, reduce power consumption.



CONTAINMENT ELEMENTS

Metal products manufactured by GLCC®, when combined with airflow products from industry leaders, allow Great Lakes to provide an extensive range of containment solutions. Enclosure walls (used to create complete and even enclosure rows), aisle doors, and overhead options range from modular solutions for temporary “quick fixes” to semi-permanent solutions that are in place for any length of time.

DECISION MAKING WITH CFD

Regardless of the airflow approach that will be deployed (or is currently deployed), CFD services provide insight into how to effectively implement upgrades that result in increased power usage effectiveness (PUE) and equipment ROI. Can't decide between hot or cold aisle containment? CFD assessment can help determine the best option and GLCC will provide product recommendations to move forward with.

+ CONTAINMENT DESIGNS

ENCLOSURE WALLS

FLOOR MOUNT RIGID WALLS

- Ideal in instances where there are data center obstructions (pillar) or an aisle faces the wall
- Fill gaps between enclosures, enclosures and the wall, or build panels around stand-alone enclosures

ENCLOSURE MOUNT RIGID WALLS

- Wall installs on top of enclosures to create an even plane between enclosures of substantially different heights
- Typically, necessary when horizontal containment panels are used

ADJUSTABLE RACK GAP PANELS

- Enclose 10–60" wide gaps between enclosures
- Attaches to side panels magnetically for quick installation and removal
- Reversible for white or black panel

AISLE DOORS

METAL AISLE CONTAINMENT DOORS

- Aisle Containment Doors (ACD) from GLCC enclose aisle widths of 48–72"
- Available in sliding or quick release (including sliding and push option)

POLYCARBONATE DOORS

- Double or single sliding doors and pivot doors
- Available with an auto close or manual close option
- Built to support unique data center scenarios

BI-DIRECTIONAL SWINGING DOORS

- Install in a matter of minutes with twist-lock magnets
- Swinging hinges for easy open and close
- Door stops to hold the door open if necessary

CURTAIN PANELS

- Economical solution to enclose aisle
- High-grade vinyl curtains
- Easy to install and flexible for redeployment

OVERHEAD OPTIONS

HORIZONTAL PANELS

- Horizontal panels install across the top of enclosures
- Heat activated horizontal ceiling panels shrink and drop to the floor prior to fire suppression being activated
- Mechanical drop-away ceiling panels fall when a signal from existing smoke or heat detection system is received

VERTICAL PANELS

- Panels in cold aisle application trap the cold air and keep it where it is needed—in front of enclosures to flow into equipment inlet
- Panels in hot aisle applications capture all enclosure exhaust so it naturally rises to the overhead return plenum

RACK TOP BAFFLES

- Angle baffles (30°) recommended for cold aisle installations
- Vertical baffles (90°) for hot aisle installations
- Attaches magnetically to the top of the enclosure for quick installation and removal