HOT AISLE CONTAINMENT

Our customers come first

Listening first, flexibility and transparency are just a few of the ways we put our customers first.

Extensive engineering knowledge

We lead with engineering meaning no surprises in lead time or cost when entering production.

A Chinese supplier globally

China is called"world factory"we make it our priority to be what you need us.

Unmatched industry expertise

For our customer's first program their 50th, we participate in specific industries because we understand

![Topwelltech logo]

Hot aisle containment(HAC) solutions is used to maximize efficiencies by cooling and removing the heat produced by data storage and processing equipment. Topwell Tech's expertise in hot aisle containment systems is reflected in our Modular Wall Systems. Our solutions for managing real estate in the white space are flexible, modular, and lightweight. From privacy suites to sound isolated work offices on the data center floor, Topwell Tech possesses the toolset, product expertise, and experience to design and deliver the right partitioning system for the data center.
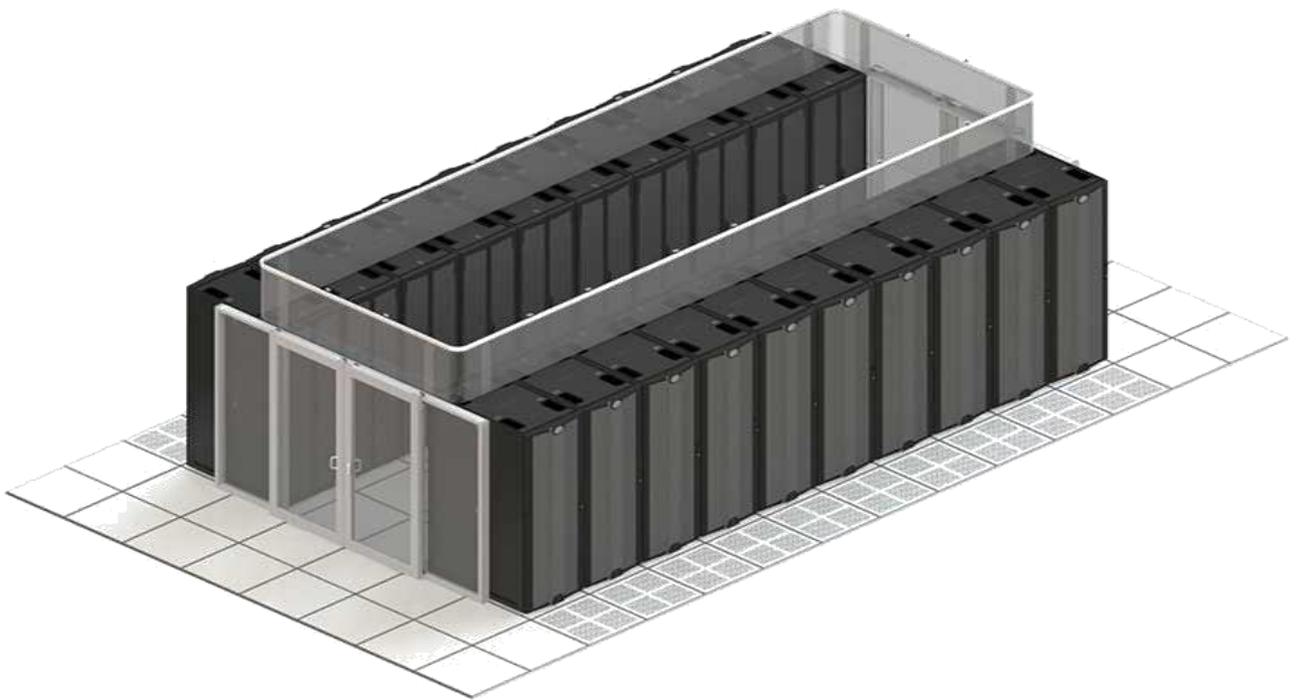
Characteristics

- Separates supply and return airflow which eliminates hot and cold air mixing;
- Increases cooling capacity;
- Saves energy and improves data center cooling efficiency;
- Faster and easier to install than other grid systems;
- Grid member center-to-center spacing can be selected to accomodate your specific project needs;
- Eliminates the need for multiple trades on-site;
- Experienced data center product manufacturer and contracting teams.

How does it work?

With a Hot-Aisle Containment system, your data center's hot aisle is enclosed within a physical barrier. This allows the discharge air from your facility's IT equipment to be returned directly to the cooling equipment through a ceiling plenum or ductwork, while the cooled air is introduced directly into the data center through a raised floor, directly into the room through the AC units, or through ductowrk.
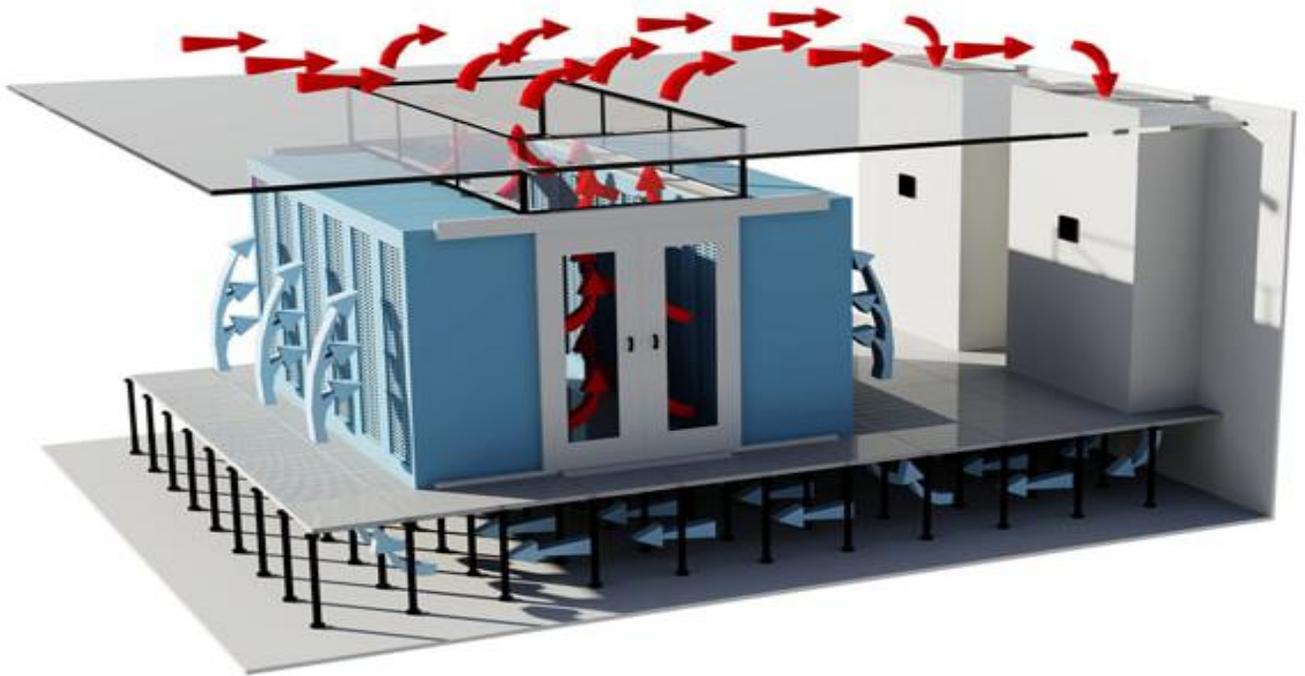
By containing the hot air, you can improve the cooling efficiency of your data center's equipment by 30% or more, control energy costs by allowing for lower AC fan speeds, and improve the overall compfort of technicians working within the data center itself. Hot aisle containment can dramatically increase the effectivness of your data center's cooling capacity. When your data center's hot exhaust air is kept separate from the rest of the room, you not only ensure that the conditioned air remains more easily cooled, but also that the exhaust air remains both hot and dry as it returns to the main AC coil. This return air being kept at the hottest temperature possible and at a low relative humidity increases your facility's AC cooling capacity, and can double the cooling capacity of your CRAC/CRAH.
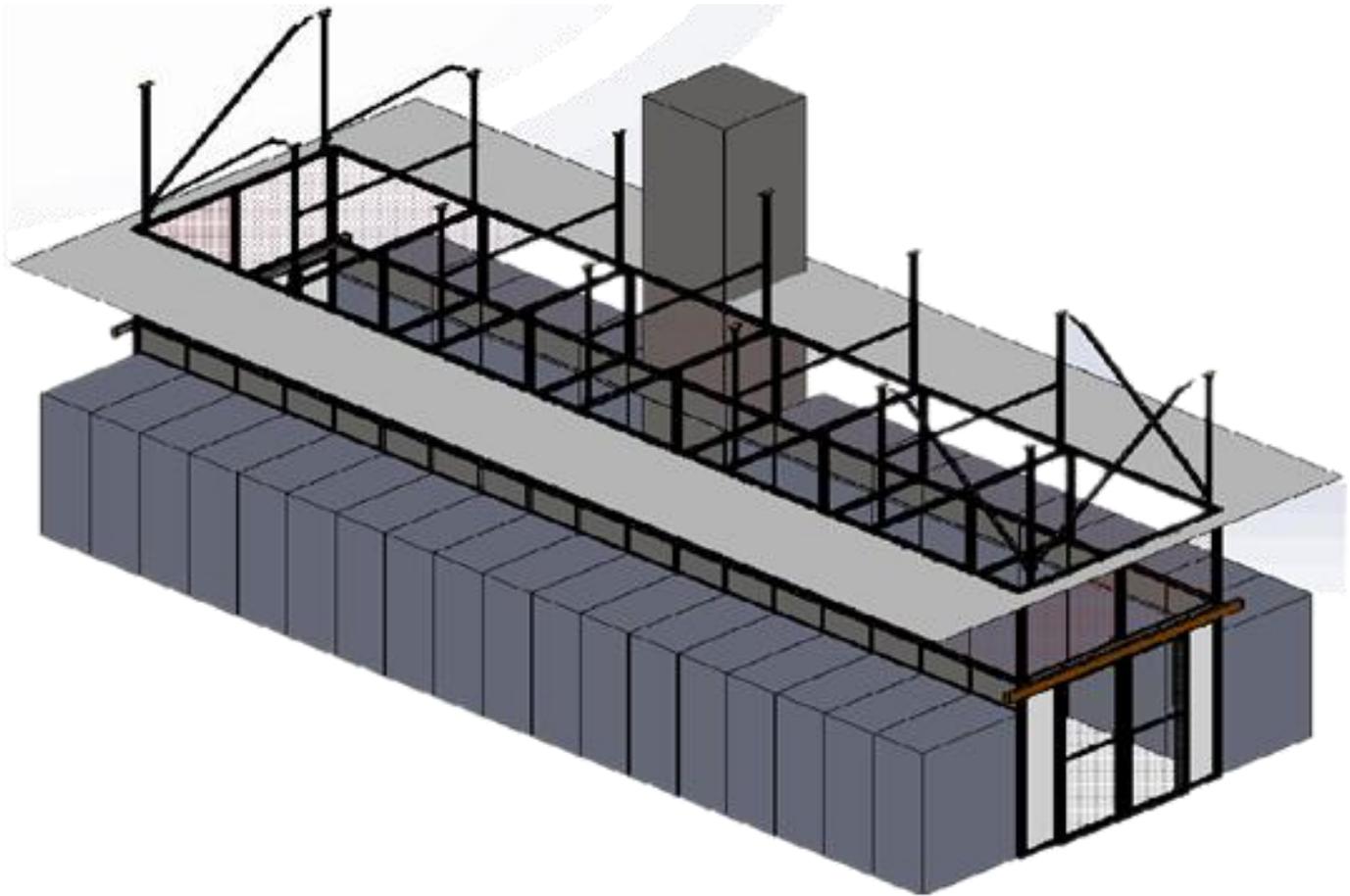
A high-quality, well-engineered HAC configuration maximizes how efficiently your data center is cooled. Data center curtains, polycarbonate partitions, data panels along with panel extrusions and tubing connectors all play an important part of the equation. At Topwelltech, we have the engineering resources and expertise to create data center cooling systems using specific extruded products for companies of all sizes. We work directly with you to develop custom hot aisle cold aisle containment solutions. Extrusions made with only with the highest quality aluminum alloys and tempered to your ideal specifications. Our team members pride themselves on delivering data center solutions with the shortest lead times available in the industry. Contact Topwelltech for more information on how to make your custom hot aisle containment aluminum extrusion .

Ceiling Supported
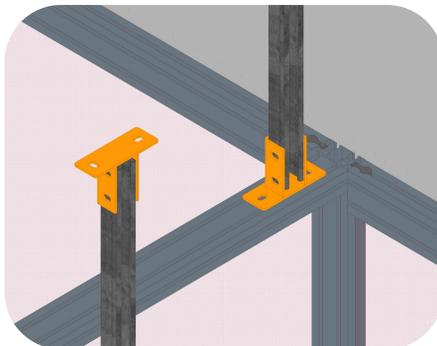
Floor Supported
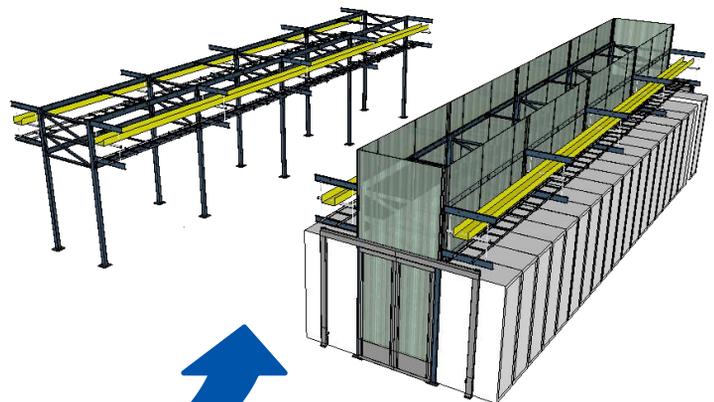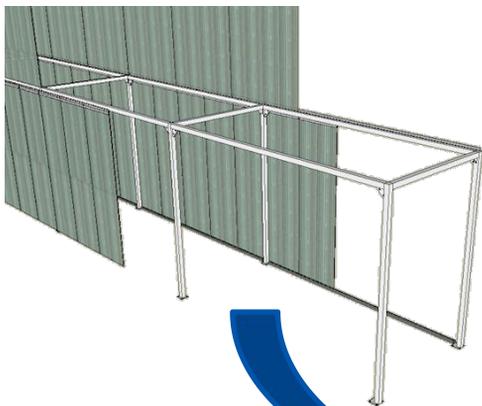
Panel

Custom HAC Aluminum Extrusions
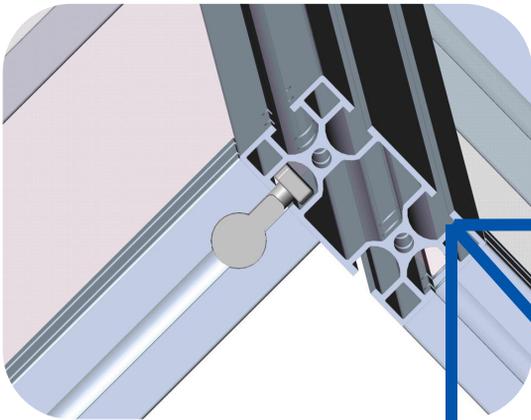
Containment Design Services

Topwell Tech provides detailed containment designs for hot and cold aisle containment projects. For new construction projects, Towelltech develops shop drawings from architectural drawings in CAD and prepares record drawings after the installations. We also offer a design assist service where we work closely with the architect's engineers and assist in the development of a final design for a project. Since containment is typically the last piece of the data center to be installed, bringing our experience and competency to the project saves time and prevents rework. For retrofits with less specific documentation requirements Topwell Tech will prepare basic design documents from layout drawings and field measurements.