



Intelligent Solutions for Critical Environments®

aislePRO+™
Custom Containment, Simplified.

aislePRO+™ CFD SERVICES

Complex Simulations, Simplified

CEG is unrivaled in our ability to assess complex data center environments then offer real, straightforward solutions related to power and cooling capacity, operational reliability, and energy usage.

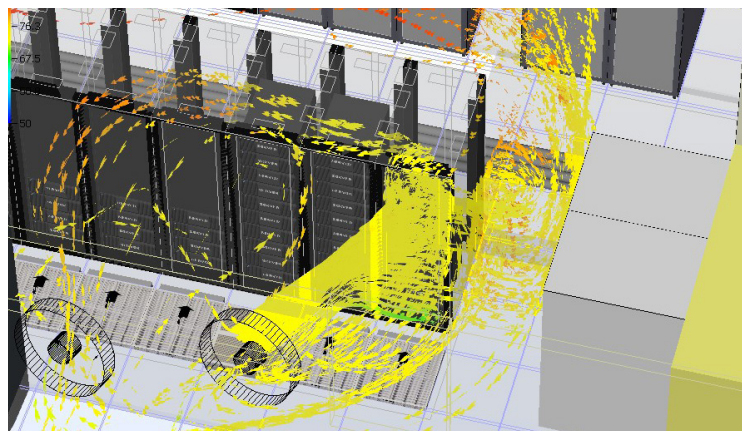
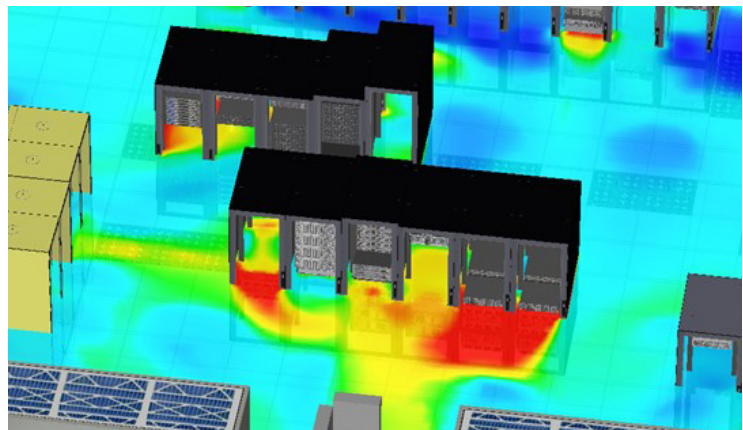
Computational Fluid Dynamics (CFD) is a valuable part of aislePRO+™ Infrastructure and Airflow Assessments. With a CFD model that also incorporates data from our proprietary Cooling Enthalpy Gauge, CEG's Assessments provide the most accurate and comprehensive road-map for optimization.

Sophisticated CFD

As enterprises look to operate more sustainably, they are demanding more from their digital infrastructure – not only from a cost and efficiency perspective, but from an environmental one too. For data centers to truly succeed at becoming net zero carbon, their infrastructure design – directed by CFD – must be at the core of any energy efficiency strategy. CEG's CFD capabilities will help you become part of the green revolution.

CEG will create a virtual representation of your environment based on factors such as the capacity and density of computing equipment and cooling system paths. The CFD study then helps identify airflow patterns, temperatures, and areas of inefficiency throughout the space.

CEG is highly trained to use **6Sigma**, the industry's most sophisticated CFD modeling software. This 'virtual tour' will provide an unparalleled level of detail – above floor, below floor, rack level.





aislePRO+™ CFD SERVICES

Mass Air Flow Provides Next-level Insight

We take the insight and accuracy of a CFD model to a whole new level with our patented and proprietary Cooling Enthalpy Gauge (C.E.G.)

C.E.G. By using mass air flow, the C.E.G. measures and trends the exact amount of cooling capacity in kW being produced by a facility's AC units. The C.E.G. uses an array of sensor pods on the returns and supply of a cooling unit. Each pod provides individual sensor readings for temperature, pressure, relative humidity, mass air flow, and airflow velocity.

Incorporating C.E.G. data into a CFD study allows us to provide the most accurate baseline models in the data center industry. You'll have clear, easy-to-understand metrics as you optimize and plan for future capacity.



aislePRO™ Custom Containment

CEG is the industry's go-to for high-quality custom strategies. Barrier panels, aisle end doors, and CRAC ducts that can meet your data center's unique needs, yet they're as easy to order and install as modular containment.

Does your project demand more?

From assessment to design,

fabrication to installation, you can rely on CEG to be a turnkey provider of any remediation solution we recommend. Our custom aisle containment will allow you to increase energy efficiency and capacity, as well as achieve your sustainability goals.

