DC-OPTIMA

Powered by PHOENICS™

DC-Optima brings the advantages of CFD to data centre designers and managers and allows an accurate computer model of your system to be set up and tested.

CHAM

CHAM Concentration Heat & Momentum Limited

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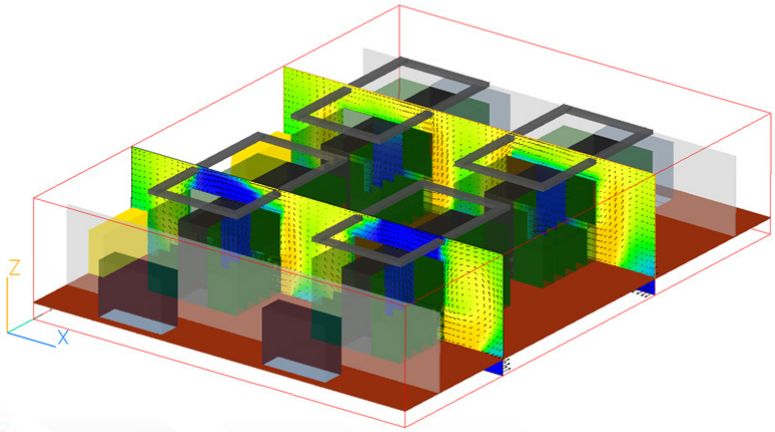
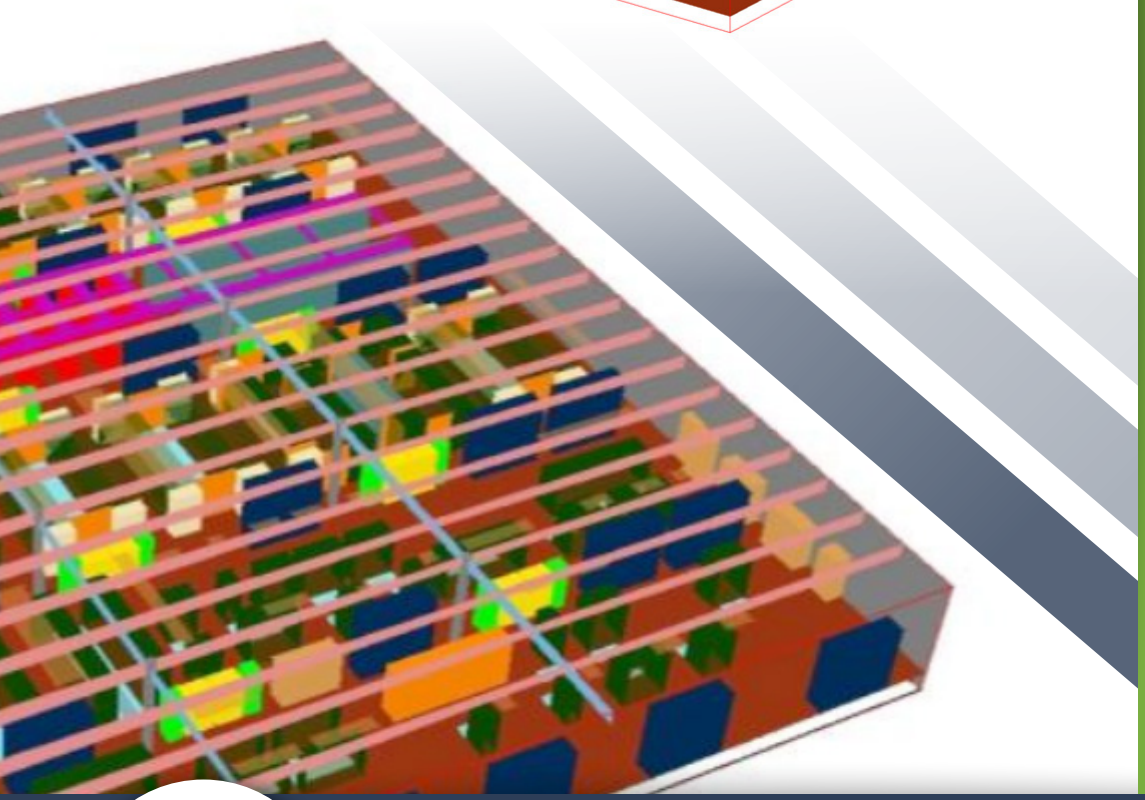
Cooling Optimization

Make efficiency a core aspect early in the design stage, reducing both development and running costs to deliver the optimal solution to your client.

DC-Optima is an all-new, self-contained PHOENICS-powered CFD module with brings the full extent of CFD capabilities to data centre design engineers and operators. Its intuitive interface permits non-CFD-experts to define and simulate an entire data centre model, or individual POD, in order to optimise its operating conditions or evaluate the performance of alternate cooling strategies and cabinet distribution. Users can also investigate and predict, safely, the potential consequence of unexpected ventilation system failures on a time-critical basis.

DC-Optima builds upon the experience gained by the use of PHOENICS which has been used to model data centre applications for many years, capturing the detail of the air flow regime throughout the data centre including air temperature, velocity and humidity.





DC-OPTIMA:

Fully Customizable:

Layout, equipment, failure test - Set up your data centre exactly how you need it

Hands-off:

You focus on the design, let DC-Optima¬ handle the CFD

Accurate and Fast:

Predict the efficiency of your design quickly, reducing your lead times and costs

Auto Reports:

Full, comprehensive reporting highlighting hotspots, power consumption and system efficiency.

DC-OPTIMA **features:**

- *Containment*
- *Failure Scenarios investigation*
- *Temperature Sensor locations*
- *Heat distribution control*
- *Energy balance prediction*
- *Min/Max load evaluation*

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