

**Q&A Session from Webinar:
Responsible Design for a Greener Future**

Q: Can the software be used exclusively for residential applications? Could FloVENT be used for evaluation of industrial/agricultural applications where humidity/temperature, is important?

A: FloVENT can be used for all building applications including residential and commercial. We can evaluate not only air flow and temperature distribution, but also humidity and contamination.

Q: What are the advantages?

A: Too numerous to list here but perhaps direct to website????

Q: How does FloVENT compare to Flow3-D and other software?

A: FloVENT is a full computational fluid dynamics solver with a focus on the built environment. This focus enables us to quickly and easily create models of internal and external spaces encountered. Some features found in more general purpose software are not available in FloVENT because they are not needed in the built environment - our focus with the software and support services results in a stable easy to use modeling package for all aspects of the built environment

Q: Are there specific built-in tools for chilled beams, radiant ceilings, displacement ventilation, or does this have to be custom built?

A: There are no specific items for those you mention. The approach would be to manually create them (though you may be able to use other SmartParts) and then store them in a library for future use.

Q: Can the software import 3d IFC format?

A: The software will import the following: Sat, step, iges, dxf

Q: Can FloVENT place the diffusers automatically in the optimal position? Same questions for the low level exhausts?

A: The Command Center allows you to move and object and change any attributes. This in combination with a cost function and our optimization algorithms will automatically find the optimum settings for many things including diffuser position. The Command Center is included in the basic FloVENT package, additional solvers to speed up the process comes at an additional price.

To learn more about the Command Centre, there is a useful video on our website:

<http://www.mentor.com/products/mechanical/multimedia/overview/using-command-center-to-design-81e9b937-da6c-47d5-afda-573b44d64cb4> Please note that this example uses an electronics box, but the functionality can be applied to HVAC applications in a similar way.

Q: Can you model any kind of diffuser/grille from well known manufacturers like Schako, Trox, Halton?

A: Yes. The approach is to use FloVENT to replicate the flow shown in test data to achieve the correct throw and drop. These could then be stored in the library.

Q: What are the training options, which cities are they available in?

A: Have a look on our website for your local training center (http://www.mentor.com/training_and_services/training/centers/) or email info-mechanical@mentor.com to contact your local office.

Q: How can I download a trial of FloVent

A: Please contact your local office or email info-mechanical@mentor.com for more information.

Q: Does FloVENT use SI units on all parameters?

A: FloVENT can use any units - imperial or SI