

Reference extract



Company: KERMI GmbH



City/Country: D-94447 Plattling, Germany

Website: www.kermi.de

Industry: HVAC

Produkts: Radiators, shower doors

Customers: Wholesale

Use EFD.Lab since: January 2004

1. Purchase Decision:

- Why did you choose to buy EFD.Lab (what were the problems that required the use of this type of tool?)
 - Flow pattern in radiators
 - Flow field, pressure loss, noise in valves
 - Heat transfer performance inside and around radiators

- Prior to EFD.Lab, did your company have any experience using Computational Fluid Dynamics software?
 - No.

- Which Tools did you use for fluid analysis and/or how were the required information and results acquired?
 - Partially with help of an external CFD consultancy service for special tasks
 - Manufacturing of physical prototypes and experimental investigations
 - However, many questions remained unanswered

- What were the most important reasons for purchasing EFD.Lab?
 - Improvement and optimization of existing products
 - Better prediction of flow and heat transfer for new developments
 - All this became true through the easy-to-use software

2. EFD.Lab Application

- Who or which function uses EFD.Lab at the company? Please choose all the functions that apply: Designer, Developer, Research Engineer, Application Engineer, etc.?
 - Application at the predevelopment stage
 - Also for questions during serial production
 - Currently only used by development engineers

- How do you work with the system? (Procedure)
 - Development of a design concept on a theoretical basis
 - Creation of 3D CAD models
 - Transfer of CAD models to EFD.Lab and definition of boundary conditions simulation / fluid flow analysis
 - In parallel, a reference experiment with a real model is done in the laboratory
 - Comparison of experimental and computational results
 - Then, variations of the design or boundary and application conditions are done
 - Findings directly lead to design recommendations

- Which functions are the most useful?
 - Hassle-free CAD data transfer
 - Automatic mesh generation is very helpful
 - The cloning of projects for case studies
 - Consideration of radiative heat transfer
 - Visualization functions for simulation results

3. Experiences, Advantages, Benefit

- What do you like most about EFD.Lab?
 - Usability
 - Quality of NIKA's Support

- Which competitive advantages are transparent? (Time to Market, RoI, Product quality)
 - Significant reduction of prototypes
 - Shorter design cycles
 - EFD.Lab simulation results can be directly used for presentations or marketing purposes

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- How do you estimate the costs (Maintenance, Training, etc.) for EFD.Lab?
 - Very good quality for an acceptable price
- Please advise on the state of Service received from NIKA (Support, Updates)
 - Great service
 - Support is competent and committed
- How do you judge consumer satisfaction?
 - Great satisfaction
 - Appreciation through "WOW effect" by colleagues confirms the satisfaction

4. How do you see EFD.Lab in compare to other computational fluid systems on the market?

- Attractive value-for-money
- Very easy to use
- Very good quality of the results
- Usability for non-specialists