

Reference extract



Company: Forster Kuechen- & Kuehltechnik AG

City / Country: 9320 Arbon / Switzerland

Website: www.forster.ch

Industry: Machinery

Products: Cooling units for fitting

Customers: All well-known Swiss suppliers of cooling units

Use EFD.Lab since: March 2003



1. Purchase Decision:

- Why did you choose to buy EFD.Lab - what were the problems that required the use of this type of tool?
 - Geometric design of injection molding parts, for optimal dispensation of the refrigeration capacity
 - Simulation of the theoretical temperature distribution in a refrigerator
 - Simulation of the refrigeration cycle
 - Detection of temperature fractions and preparing improvements
 - Optimization of energy use from cooling units
 - Theoretical exact computation of physical processes, that can not be tested at all, or require a lot of time and/or money to do so
- Prior to EFD.Lab, did your company have any experience using Computational Fluid Dynamics software?

No. EFD.Lab has been evaluated and bought at the same time at our subsidiary company KERMI GmbH.
- Which Tools did you use for fluid analysis and/or how were the required information and results acquired?

The required information has been gained, if possible, through extensive test series.
- What were the most important reasons for purchasing EFD.Lab?
 - Improvement of development results through integrated simulation during the development process
 - Reduction of development time through reduction of variants in test series, through preselection of the best variants through simulation
 - Better insight into the physical processes within the refrigerator
 - Ease of use
 - Direct access to CAD-data

2. EFD.Lab in Use

- Who or which function uses EFD.Lab at the company? Please choose all the functions that apply: Designer, Developer, Research Engineer, Application Engineer, etc. ?
 - Engineer
 - Research Engineer
- How do you work with the system? (Procedure)

Parallel to the development process we simulate different variants and pick the best of them for further development. For verification purposes we build test specimen and check their results against the ones we got through simulation.
- Which functions are the most useful??
 - Integrated solid modeler
 - Automatic mesh generation
 - Combination of fluid dynamics with thermal processes
 - Use of parametric geometry (Use of Excel)
 - Report generation and display of results

3. Experiences, Advantages, Benefit

- What do you like most about EFD.Lab?
 - Ease of use
- Which competitive advantages can you recognize today? (Time to Market, RoI, Product Quality)
 - Shorter development time
 - More comprehensible, simpler display of products, therefore support of sales talks and quality discussions
 - Better development results
- How do you estimate the costs (Maintenance, Training, etc.) for EFD.Lab?

Since we want to earn possibly as much money as we can all costs are too high. Naturally these of EFD.Lab, too. No! Joking apart, the purchasing costs are ok; the maintenance costs are too high. A different system, which would be based on the amount of usage of the hotline, would be better.
- Please advise on the state of Service received from NIKA (Support, Updates)?
 - Very satisfied
 - Support is fast and uncomplicated
- How do you judge user satisfaction?

Good! Users like to work with EFD.Lab, because the software is very easy to use.

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

For simple tasks, which can be done by users, who are not working continually with simulation, EFD.Lab is the Hit !