

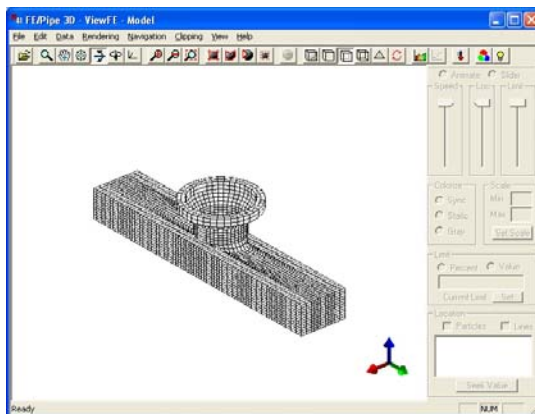
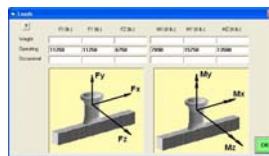
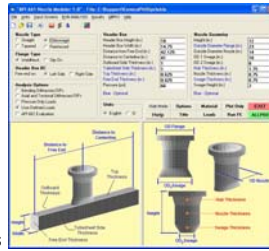
## What is FE661?

FE661 is a finite element analysis program for analyzing rectangular box headers used in air coolers. The rectangular geometry of the box header is often outside the capabilities of pressure vessel design software based on analytical methods. Further, the nozzles are commonly non-circular to maximize flow area while keeping the depth of the header shallow to minimize bending stresses in the plates. So, designers and engineers have no indication of whether flexibilities and stress intensification factors based on traditional sources are applicable.

Air coolers are commonly designed using the API 661 standard. Since FE661 uses the finite element method, FE661 is independent of any geometric limitations used in the design standard. So, you can use FE661 regardless of the standard used to design the equipment.

## What are key FE661 features?

- Automated calculation of stress intensification factors and flexibilities
- Automated ASME code compliance check
- Context sensitive graphics that illustrate program input
- External loads applied on nozzle (piping)
- Fatigue calculations for piping and pressure vessel codes
- Nozzle types: Obloswage, Reinforced, Straight, Tapered
- Rich DirectX graphics illustrate model and results



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