OpenFOAM Tutorials

4 setFields

4.1 Here the utility setFields will be examined. The setFields tool enables us to set the initial condition of a vectorField or scalarField to a fixed value, for a specified region of the domain. Here we will use a similar case as the ./tutorials/zones/case2/, with the difference that in the air region, there is a circular heat source, as it can be seen in he figure below. In the air region, we will solve the Poisson equation, in order to take the heat source's effect under consideration. The parameters that will be used are L=2 m, H=1 m, $T_L=350$ K, $T_H=300$ K,

This is done using the setFieldsDict, as it can be seen from the example.

