



Removal heat "flux" direction

- 1- from heat source to heat sink plate via conduction. (governed by the thermal contact at the interface between the two bodies)
- 2- from heat sink plate to cooling tubes via conduction between plate bulk and inner surface of the cooling tube (not modeled here).
- 3- force convection of the cooling water. (governed by the heat transfer coefficient at the interface between the inner surface of the tube and the cooling fluid)

Cu heat sink plates

How to apply heat transfer coefficient on these surfaces!
Using Form Union

Water flow direction

Heated graphite block (heat source domain)

Cooling tubes

Cooling water flow