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what is heat exchanger heat transfer coefficient thermal Apr 23 2022 22 05 2019 overall heat transfer coefficient a heat exchanger typically involves two flowing fluids separated by a solid wall many of the heat transfer processes encountered in industry involve composite systems and even involve a combination of both conduction and convection heat is first transferred from the hot fluid to the wall by convection through the wall

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then we can infer $t_1 t_2$

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heat transfer by conduction because no single property of the heat
transfer medium such as thermal conductivity can be defined to
describe the mechanism convective heat transfer is complicated by the
fact that it involves fluid motion as well as heat conduction heat
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