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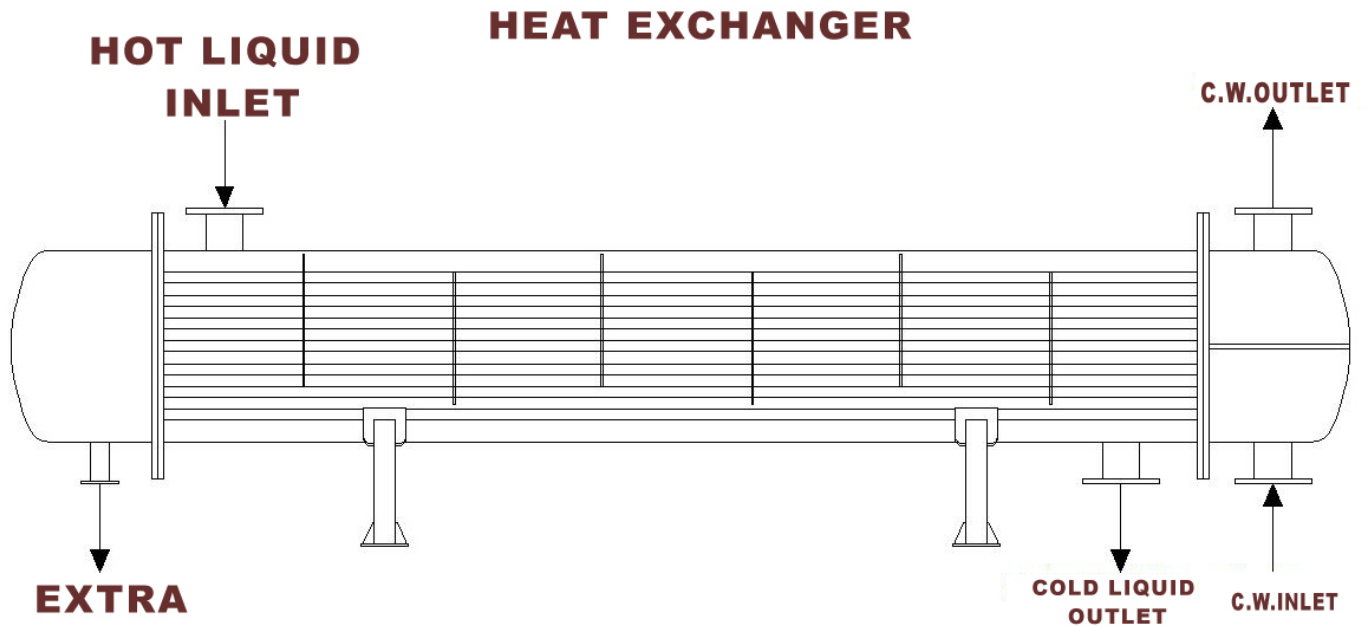
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Informative posts I'm very much happier for the passion in sharing with chem engineer buddies. Lucky to have you.. Usually this is the basic definition that is explained in engineering classrooms, but while coming to exams time many of us will retain only one thing: Latent Heat means Phase change, that is, even if the one who explored it came before also we won't listen, but in addition to the Phase change in definition there lies another one majestic line, WITHOUT RAISE IN TEMPERATURE, which means Latent heat won't depend upon temperature, and also Temperature is directly proportional to pressure, Latent Heat won't depend upon the Pressure also, Please Note this.. But if you look at the steam tables we can clearly see that latent heat changes with the temperature and also of course with pressure.

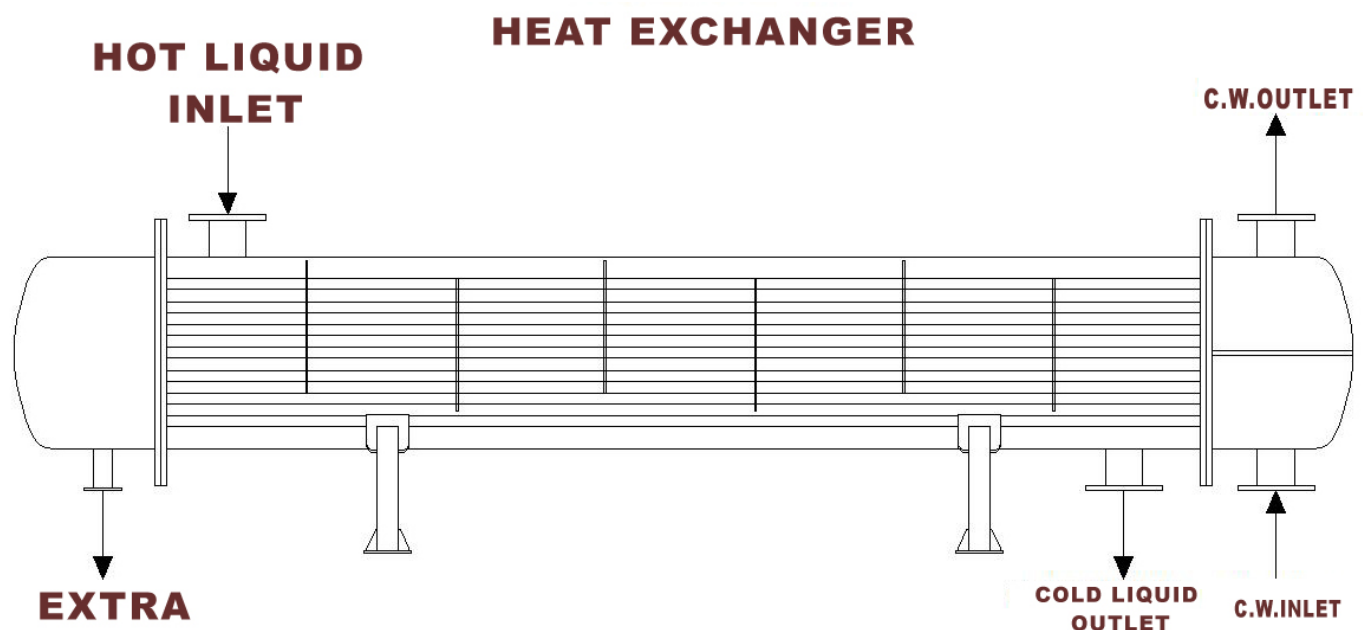
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in hr C, this value is not a thumb value, but generated from average of different trials taken while designing the condensers.. Also Read: How to Calculate Time-Cycle required for Heating/Cooling for a Pharmaceutical Operation How to Select a Vacuum Pump for an pharmaceutical Operation 2.. So, now I'll equate mathematically, Don't worry this equation won't involve that much logical mathematics which makes you fear, but just involves simple ones.

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So Before entering the point I want you guys know something basic knowledge which helps you in better understanding of this.., So now, $Q_L = Q_S = Q = (M \times \text{Lám}) (M \times C_p \times dT)$, To solve this we need to consider same M value for both Q_L and Q_S , and dT should be taken at least 6C - 10C, for getting a better design that suits your requirement.. So for the case of condenser duty, $Q_L = M \times \text{Lám} \times U \times A \times \text{LMTD}$ So, our Required Heat Transfer Area, $A = (M \times \text{Lám}) / (U \times \text{LMTD})$, U value can be considered in between 300 - 450 KCalSq.



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Delete Replies Reply Unknown 31 December 2017 at 00:58 Very nice it is quite helpful Reply Delete Replies Reply Unknown 9 August 2018 at 21:17 nice work ajay very simply you put a complex things.. So our modified equation for Calculating the Heat Transfer Area is as follows, $A = \frac{M \times C_p \times \Delta T}{U \times LMTD}$ ($M \times \text{Lam}$) ($U \times LMTD$).. Best Regards, AJAY K Delete Replies Reply ANANDKUMAR 19 August 2019 at 14:27 THIS CONTRADICTS YOUR STATEMENT ABOVE THAT LATENT HEAT DOESNT DEPEND UPON THE TEMP PRESSURE Delete Replies Reply Reply Add comment Load more.. Reply Delete Replies Ajay Kumar 4 July 2017 at 13:41 Whats the solvent you are trying to evaporate, and tell me weather the reaction mass is an pure compound or not Regards, Pharma Engineering Delete Replies Reply sainadh 24 September 2017 at 12:10 sorry ajay i didnt see your comment from so long time and My solvent is dichloromethanol(bp39C) and my reaction mass is composition of product,solvent and water.. Many of you may confuse over this topic finding the difference but there lies a solid difference between the two of them, starting with, 1.

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Latent Heat: The Heat energy required for 1 Kg of solvent to transform itself into vapour state without raise in temperature from its boiling point is called Latent Heat.. So whenever we need to decide the Rate of condensation we need to know the Area of Heat Transfer, Luckily we got the Correlation in terms of heat energy.. Now i think you got some basic knowledge regarding the aspects of heat transfer, So lets get into point directly, Lets start our design concept, Once again recollecting, duty of condenser is to take off the latent heat from vapour and condense them, so the load over a condenser will be Latent heat, Latent Heat, $Q_L = M \times \text{Lam}$ - Mass FlowRate of vapour, Lam - Latent Heat of Vapour.. Thats it, done But for sure this Area wont suits your requirement, Because we know that the duty of condenser is to condense the vapours, but the condenser donno this fact and even after condensing the vapours it will still reduce the temperature of the condensate, that means it is doing over duty which involves some change in Sensible heat also, so while equating the Q_L to Q , we need to add Q_S to Q_L and then have to equate it to Q .. So Basically to define the heat transfer of any heat exchanger we will go with the Overall Heat Transfer Coefficient and the Temperature of the fluids, which are in turn correlated by, $Q = U \times A \times LMTD$.

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