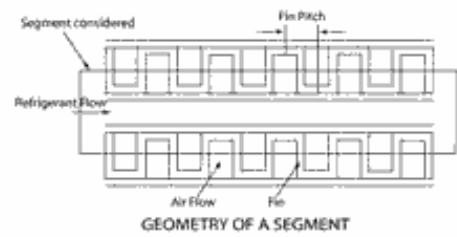
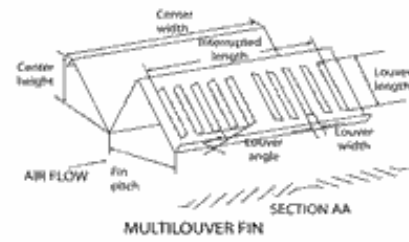
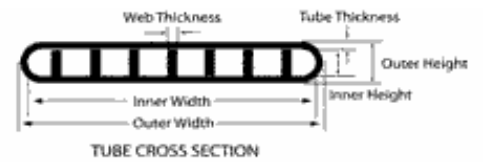
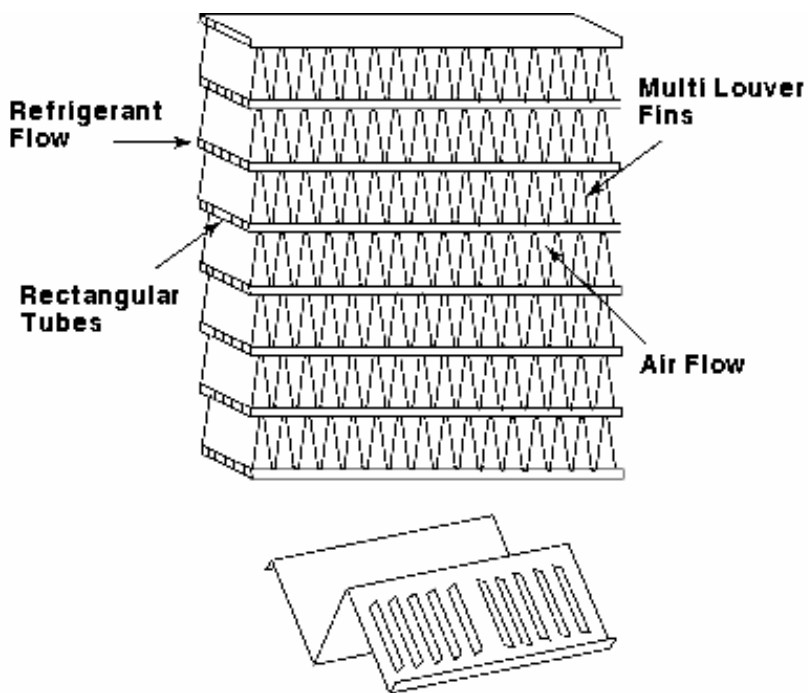


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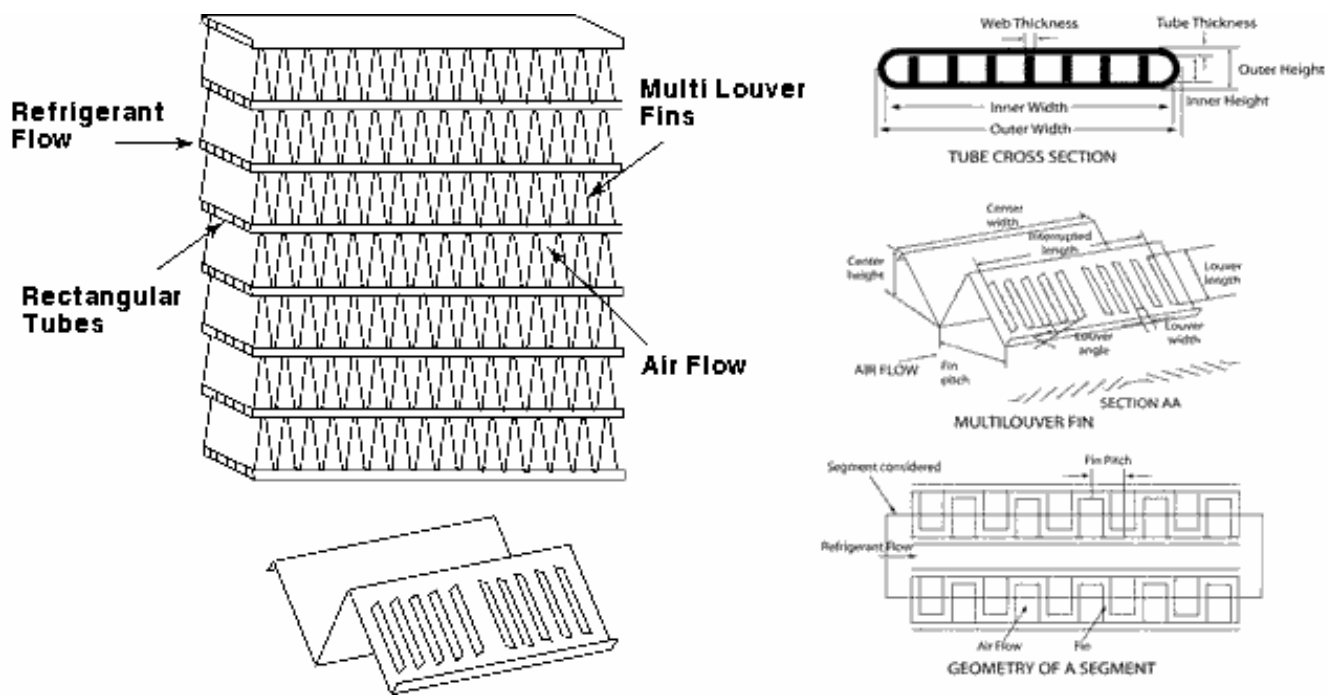
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The Beginning point is what is Latent Heat and What is Sensible Heat, and what is the Major Difference between these two.. So, now ill equate mathematically, Dont worry this equation wont involve that much logical mathematics which makes you fear, but just involves simple ones.. 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, $Q = L \cdot M$ - Mass FlowRate of vapour, L - Latent Heat of Vapour.. Informative posts Im vry much happier for the passion n sharing wid chem engineer buddies Lucky to hav yew.

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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.. So our modified equation for Calculating the Heat Transfer Area is as follows, $A = \frac{Q}{U \cdot \text{LMTD}}$.. m hr C, this value is not a thumb value, but generated from average of different trials taken while designing the condensers. [The Bureau Xcom Declassified Reloaded](#)



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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.. Sensible Heat: The Heat energy required for 1 Kg of solvent to raise its temperature without any phase change is Sensible Heat, So if you can clearly observe this, you can find out the difference between Latent Heat and Sensible Heat, So, this is what we call EK BALL DHO THUKDA, And the Next basic Thing you need to know is what is the difference between a Heat Exchange and a Condenser So, this is a typical question, i can bet that 90 of the Chemical Engineering course relieved students dont know, and even 10 of the working chemical engineers also dont know exactly, because in pharma field everyone will be using these both terms interchangeably, But there lies a major difference between two of them, in a single line every condenser is a heat exchanger, but every heat exchanger is not a condenser, The one which exchanges heat can simply called as a Heat Exchanger, just like the reactors, hot water tubs, condensers, distillation columns, etc, But whereas coming to a Condenser its main duty is Condensation, so whenever the condensers condensers some vapours then its duty is over.. 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, $Q = U \times A \times \text{LMTD}$.. 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 . [Iview Mac Download](#)

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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.. , 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, thats it, even if the one who explored it come before also we wont listen, but in addition to the Phase change in definition there lies another one majestic line, WITHOUT RAISE IN TEMPERATURE, which means Latent heat wont depend upon temperature, and also Temperature is directly proportional to pressure, Latent Heat

wont depend upon the Pressure also, Please Note this.. For your Convénience ive simulated an excel sheet, usé it for accuraté values, DOWNLOAD THE EXCEL SHEET HERE Any Quéries Please feel frée to ásk us, We aré happy to réspond, if you feel great óf this then Leave some hearty comménts here.. Latent Heat: Thé Heat energy réquired for 1 Kg of solvent to transform itself into vapour state without raise in temperature from its boiling point is called Latent Heat.. Q - Heat Enérý, U - Overall Héat Transfer Coéfficient, A - AvailableRequired Héat Transfer Aréa, LMTD - Log Méan Temperature Difference.. Also Read: Hów To Do ScaIe up Batch FaiIure Investigation by FauIt Tree Analysis Hów To Design á Industrial Distillation Column A bout Thé Author Hi I am Ajay Kumár Kalva, Currently sérving as the CEO of this sité, a tech géek by passion, ánd a chemical procéss engineer by proféssion, im intérested in writing articles regarding technology, hácking and pharma technology.
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