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Implementation of Multimodal Evaporator for Water filtration at Alkyl Amine Plant Pune

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Abstract: *This paper present the development of a model and an algorithm to design a multiple effect evaporator system. Also, it is required to make to evaluate the amount of steam saved by the use of vapour compression. The use of vapour compression allows us to use the energy in the vapour leaving the last effect. Since evaporators are energy intensive system, use of vapour compression can considerably reduce steam consumption, but at the cost of electrical energy needed to run the compressor. If a single evaporator is used for the concentration of any solution, it is called a single effect evaporator system and if more than one evaporator is used in series for the concentration of any solution, it is called a multiple effect evaporator system. Paper aims to compare and review available model of evaporator and make modification in multi effective purpose which used in industry.*

Keywords: Evaporator, development, consumption, energy