The efficiency of the sugar plants depends to a large extent on the performance of its evaporators. The conventional Robert evaporators used in the most of the cane sugar factories work with high $\Delta T$. Thus $1^{\text{st}}$ or $2^{\text{nd}}$ vapours are usually required for heating/boiling of juice/massecuite. In order to operate the sugar plant with high efficiency, it is one of the pre-requisites that the evaporators work on very low $\Delta T$ so that the lower effect vapours can be utilized for heating/boiling. Falling film evaporators have the required characteristics to work on narrow $\Delta T$ to improve the steam economy.

**FFE** plus Falling Film Evaporators

FFE is the pioneer in introducing falling film evaporators in the cane sugar industry. More than 170 FFE plus units are operational in the cane sugar plants depicting our immense experience and trust in it by the clients. Along with installation of FFE plus in the new modern cane sugar factories, we have upgraded many of the sugar plants with the FFE plus to improve the steam economy.

**Design features and performance**

- Very good heat transfer
- Tailor made design to optimize the investment cost and maximize the performance
- Little colour formation and negligible sugar losses
- Designed according to ASME standards for operational safety and longer life
- Unique juice distributor design prevents choking of tubes
- High operational flexibility and negligible juice entrainment with high performance external vapour separator
- CIP (Clean In Place) stands for quick cleaning of tubes without opening the evaporator
- Manufacturing under the supervision of highly skilled German & Indian engineers
- Fully automated

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