# Sustainable Environment Development





# Plate Falling Film Evaporator

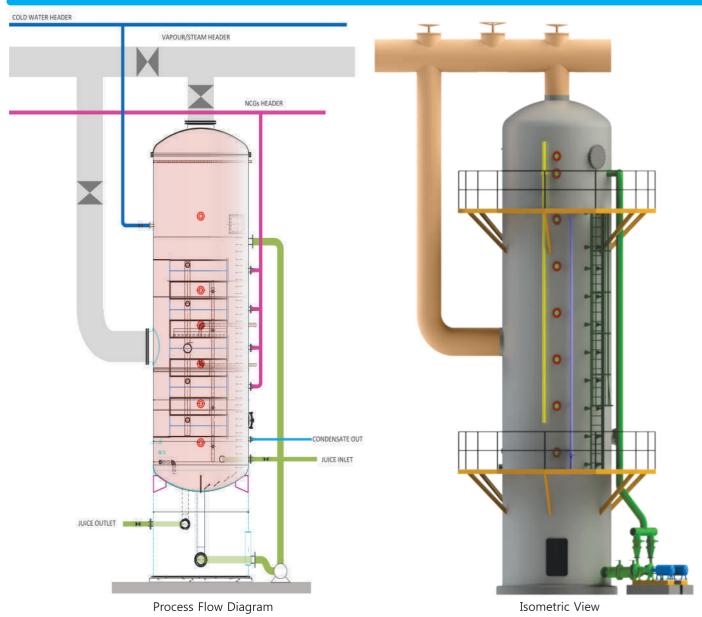
Lowest  $\Delta T$  (1-4°C) Operation

Plate falling film evaporator has lowest pressure losses and higher turbulence on liquid side to achieve highest heat transfer coefficient.

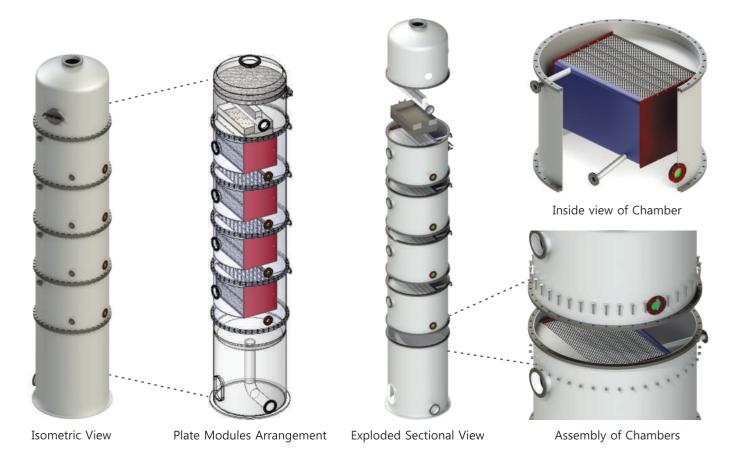
#### **DISTINCT FEATURES:**

- Lowest pinch temperature difference for minimum utility consumption.
- Highest heat transfer rate (up to 4500 W/m<sup>2</sup>K).
- Offers highest energy efficiency.
- Efficient entrainment separator (More than 90% removal of 5µm size particles).
- Allows accommodation of more number of effects in given  $\Delta T$  and  $\Delta P$ .
- Compact and modular design.
- Distributed HS that facilitates easy operation and maintenance.
- Low thermal residence time.
- Lower inversion and low color formation.
- Low recirculation pumping requirement.
- Patented technology.

Having experience of Designing, Manufacturing, Erecting & Successful commissioning of Standalone 10,000  $m^2\,HSA$  in Single Unit.



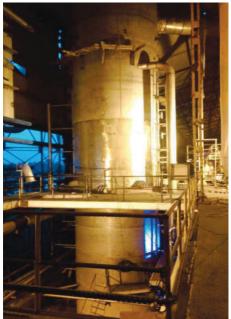
#### **ASSEMBLY LAYOUT OF PLATE FFE:**



## **INSTALLATIONS:**



AL Khaleej Sugar Co., Dubai, UAE (Largest PFFE of HSA 34,000 m²)



Haidergarh Chini Mills Ltd., UP (PFFE of HSA 4,000 m²)



Gangakhed Sugar & Energy Ltd., Maharashtra (PFFE of HSA 3,100 m²)

Parameters	Before	After	
Capacity Utilization	6200 TPD	7000 TPD	
Steam Consumption	24%	20%	
Reduction in Power Consumption up to 15%.			

Parameters	Before	After
Capacity Utilization	4080 TCD	4300 TCD
Steam Consumption	47%	36%

Parameters	Before	After
Capacity Utilization	6000 TCD	8000 TCD
Steam Consumption	46%	35%





## **SPRAY ENGINEERING DEVICES LIMITED**

**SPRAY HOUSE**, C-82, Industrial Area, Phase - VII, Mohali - 160 055, Punjab INDIA

Tel.: +91-172-3508200

www.sprayengineering.com



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