

ENVISOL

Case Study: Concentration of Glucose and Dextrose at very low OPEX

Arvind Envisol (a subsidiary of Arvind Ltd.) introduces PFET (Polymeric Film Evaporation Technology) which can concentrate Glucose or Dextrose at a very low OPEX. Our unique value proposition lies in the worldwide patented polymeric heat exchanger we use in our evaporators.

This technology offers various advantages such as:

- Globally, Lowest OPEX when compared to any other evaporation technologies. Requires only 10kgs of steam per KL of Evaporation
- No Corrosion
- Reduced Carbon Footprint
- Lower Fuel Consumption
- Removes bottleneck on capacity constraint of Boiler, lowering Steam Consumption

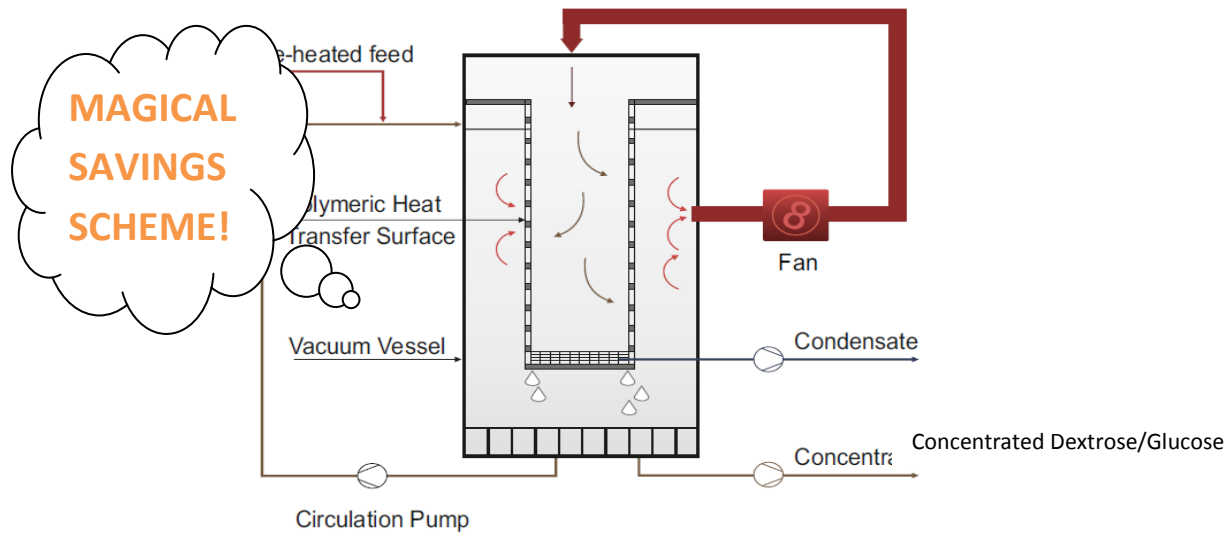
OPEX Savings for Glucose/ Dextrose:

Assumed Inlet Feed	100 Tons per Day (Dextrose/ Glucose)
Initial Concentration	35%
Final Concentration	55%
Assumed Steam Cost	Rs 1.25/ kg
Assumed Power Cost	Rs 7/ KWh
Assumed Plant Production Days	330 days/ year

Cost Comparison	MEE (Double Effect)	Envisol PFET	Savings	Savings (in Rs)
Steam	18182 kgs	1000 kgs	17182 kgs	21,478
Power	400 KWh	1200 KWh	-800 KWh	-5600
			Net OPEX Savings (Rs/ Day)	15,878
			Net OPEX Savings (Rs/ Year)	52.4 lacs

Payback of Technology for this application is less than 3 years

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TECHNOLOGY BREAKTHROUGH! SAVE UPTO 60% ON YOUR GLUCOSE/ DEXTROSE PRODUCTION



Picture of a PFET plant