

HMX-IDEC boosts productivity at Marico!

Background

Marico is a leading consumer products company in the global beauty and wellness space. Its 7th (and newest) manufacturing unit has been set-up in Gujarat, India to meet the growing demand for its products.

Challenges

Sanand experiences high ambient temperatures during the summer. This, together with the heat generated by the heavy machinery deployed on the shop floor, makes for an overly warm working environment that affects the employees' health, morale, and consequently their productivity.

Comfort of its employees is a priority for Marico. Hence, the management decided to provide adequate cooling and ventilation inside the manufacturing unit. At the same time, the management was clear that the cooling solution should be sustainable and energy efficient so as to be in line with their green goals.

Solution

Marico carefully evaluated the conventional air-conditioning and various evaporative cooling systems.

This was when they came across the Indirect Evaporative Cooling based solutions from HMX. Based on the detailed inputs shared by the HMX team, Marico management was convinced that HMX's Indirect Direct Evaporative Cooling technology (HM-IDEC) would be a perfect fit - it would provide comfort without compromising on energy efficiency!

Marico, therefore, decided to go ahead with HMX-IDEC and installed 5 units with a total capacity of 117,000 CFM in the year 2020.

Result

The installation of HMX-IDEC units marked a significant milestone for Marico as this was the first time, that Marico have used any type of cooling solution inside any of their facilities.

The performance of HMX-IDEC units has been excellent, delivering superior cooling helping to maintain temperatures, which are at least 10°C-12°C lower than the ambient during peak summer time. These units have also proven to be energy efficient resulting in a low carbon footprint.

Additionally, the HMX-IDEC units also provide:

- Low moisture addition in the environment - good for both people and process
- Excellent IAQ (Indoor Air Quality) with a high fresh air percentage, positive pressure and filtration
- Healthy and safe work environment due to significant air circulation per hour

With a comfortable work environment, Marico has seen an increase in workers' productivity and a decline in absenteeism compared to their other manufacturing units across India!

The success story of Marico with HMX-IDEC is an example for other companies facing similar challenges in similar, difficult climatic conditions.