

Case Study

HMX-IDEC helps Himalaya prevent objections from international regulatory authorities

Background

The Himalaya Drug Company is a leading company producing herbal health care products. It produces products under the name Himalaya Wellness. It has grown multifold and is spread across locations in India and abroad. Today, the Himalaya brand is synonymous with safe and efficacious herbal products; their products are prescribed by 400,000 doctors worldwide, and millions of customers trust them for their health and personal care needs.

Challenges

Himalaya's revamped state-of-art factory in Bangalore commenced operation in 2009 and is spread over 28 acres. Its production block-2 and raw material section comprises an area of approximately 25,000 ft², where the herbal medicine in the form of granules/powder or liquid is stored before taking it into production. This space was only ventilated and the temperature usually soared above 35 °C in the summer. Storage of raw materials at temperature above 30 °C could be objected by the international regulatory authorities

Solution

This is when the Himalaya management approached HMX for its evaporative cooling solutions. The requirement was that the temperature in any weather should not cross 30 °C. HMX then carried out a comprehensive heat load study and based on the calculated room sensible heat gain, assumed delta T of 5-6 °C (difference between room temperature and grill temperature) it was estimated that 30,000 CFM of dual stage evaporative cooled air would be adequate even in the worst condition to ensure that the space temperature does not cross 30 °C. This was re-checked with the ideal number of air changes and it was found to be in line with industry standards. Himalaya then invited HMX to supply 2 x 15,000 CFM machines totaling to 30,000 CFM. Also, Himalaya wanted to continue with the existing ducting as it was relatively new and changing the same would obstruct the factory working. The HMX team then executed the project keeping the same ducting without any interference in factory working, with successful air balancing.

Result

The HMX-IDEC was commissioned in the month October has successfully passed the 2014 summer. The temperature has never crossed 28 °C since then.

The management at Himalaya is satisfied with the results. The store manager at the factory said.

“ We are extremely satisfied with the performance of HMX units. Earlier temperature in summer used to shoot up beyond 38 °C since this building roof faces the sun and once this system is in place we are relieved of the tension of inside temperature going beyond 30 °C. ”



HMX-IDEC of 15,000 CFM capacity installed at Himalaya's Bangalore plant