



HMX-Ambiator helps Himalaya prevent objections from international regulatory authorities

Case Study

Company 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.

The challenge

Himalaya's revamped state-of-art factory in Bangalore commenced operation in 2009 and is spread over 28 acres. Its production block 2, raw material section, comprises an area of approximately 25,000 ft² (PB2 RMS), 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

The solution

This is when the Himalaya management approached HMX for its IDEC system. 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°C-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.

The result

The HMX-Ambiator was commissioned last October and 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."



15,000 CFM HMX-Ambiator installed at Himalaya's Bangalore plant

About HMX

HMX, a business unit of A.T.E., designs and manufactures unique, energy-efficient, and eco-friendly products for space and process cooling for the industrial and commercial sectors, using its patented and highly successful DAMA technology. The product range includes the HMX-Ambiator, and the fresh air pre-cooling units, HMX-PCU-F and HMX-PCU-R. With an installation base of 20 million CFM covering more than 3.7 million ft². all over India, HMX is making fast strides in providing eco-friendly cooling solutions for people and process comfort.