

Case Study

Gold Fin International LLC, Oman uses HMX-Ambiator to maintain a comfortable working environment

Background

Gold Fin international LLC is a manufacturer, processor and exporter of fish meal and fish oil. It is promoted by the NPM Group, India, which operates several plants in India and Oman. Currently Gold Fin has two plants in Oman - one in Jalan, and the other in Duqm.

Challenges

The plant located in Jalan is involved in the cooking of raw fish. This is done at a temperature that is as high as 90°C, with the heat being supplied by pressurised steam generated from boilers.

The ambient temperature in Oman is in the range of 40°C. The heat generated by the various cooking and packaging processes can cause the temperature in the plant area to remain as high as 50°C, which makes for very uncomfortable working conditions for the team working in the plant. The high temperatures caused a loss of productivity and a dip in the workers' morale.

As a result, the management of Gold Fin decided to install a cooling system to provide much needed relief to its workers.

Solution

Gold Fin approached HMX for an air cooling solution for their Jalan plant. After a study of the plant and the ambient conditions, HMX proposed a 15,000 CFM HMX-Ambiator (based on Indirect Direct Evaporative Cooling technology) unit, that was calculated to be adequate to counter the issue of human discomfort on account of high temperatures and lack of ventilation. The machine was subsequently installed and successfully commissioned.

Result

The HMX-Ambiator 15K unit supplies air at a temperature of 20.5°C so the indoor temperature in the plant is maintained at a comfortable 25°C, in spite of the heat generated by the various production processes.

Gold Fin is very happy with the performance of the HMX-Ambiator units. Mr Muhamed Basheer, MD, Gold Fin International LLC, said "We were looking for an energy efficient cooling solution for the production hall of our fish oil & fish meal processing plant at Jalan, Sultanate of Oman. The HMX-Ambiator has efficiently met our requirements of cooling inside the production hall even during the peak summer time. We are happy with the product performance and also have plans of installing HMX-Ambiator units in our other plants."



Installation at Gold Fin