

Case Study

Making the workshop pleasant is just an IDECool away, discovers Unik Gauges & Tools, Pune

Background

Unik Gauges & Tools is located in the industrial area of Dhayari, Pune, India, and is specialised in the manufacturing of gauges. Unik's mechanical CNC machine workshop covers an area of 1100 square feet.

Challenges

The heat generated by the CNC machines operating in the enclosed workshop made it difficult for workers to perform the precision work that is required on such machines. Another issue affecting the workers was the fumes of lubricants released during machining. The management at Unik was eager to find a cost-effective solution to these problems as they affected company productivity.

Solution

After some research, Unik Gauges & Tools decided to go with HMX's IDECool. The IDECool is an Indirect Direct Evaporative Cooling solution that uses HMX's proven DAMA technology.

Unik installed one IDECool of 6000 CFM (cubic feet per minute) in the workshop. Overhead vents were provided for each worker, thus giving them relief and comfort from the heat and fumes generated by the CNC machines and the process.



Result

The ambient temperatures at times could go beyond 40°C. However, after the installation of the IDECool 6, temperatures within the workshop are maintained at 10-13°C lower than the ambient temperatures. At the same time, the smells and fumes of lubricants were significantly reduced, as the IDECool filled the space with fresh, clean, cool air. This created a comfortable and healthy environment in the workshop, making the workers very happy.

Area cooled	1100 ft ²
Application	Mechanical workshop cooling
Number of machines installed	1
Machine capacity	6000 CFM
Temperature outside the building	39°C
Temperature inside the showroom	26°C

**Cubic Feet per Minute*

The management of Unik Gauges & Tools is happy with the performance of IDECool 6 and is planning to install more machines to cool the remaining spaces in their workshop and office areas. The low maintenance and operational costs of the IDECool are added incentives.

The IDECool 6 is a standardised product, using HMX's renowned DAMA technology. HMX is a world leader in Indirect Direct Evaporative Cooling and has the world's largest installed base of more than 40 million CFM.