



Ventilation & Air-Conditioning



MECHON

Enhanced Environments



Client:

Henkel Loctite Adhesives

Technology:

Evaporative Cooling & Heat Recovery Systems

Ambient temperatures in excess of 42°C were being experienced in the clients lead powder production area, caused by excessive heat loads generated by lead furnaces on a mezzanine floor.

Employee productivity remained low and absenteeism high during the warm summer months. Product quality was being effected as the process required low temperatures during atomisation.

MECHON were commissioned to design and install heat extraction and evaporative cooling systems to overcome the issues raised.

A series of six roof extract fans were installed above the mezzanine area, extracting the warm air as it rises from the process equipment.

An evaporative cooling system was installed to supply tempered air to the production area through a series of grilles, mounted within a system of high level ductwork, spanning all areas within the facility.

Temperatures within the area have since not exceeded 28°C, resulted in consistent product quality and improved working conditions for employees.

Shaping Your Environment