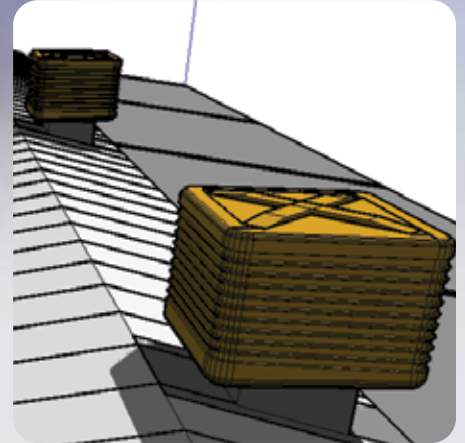


Lithographic Print Case Study



The Problem

Lithographic printing generates a lot of heat as the inks are dried, but care must be taken to avoid air flow across the ink wells on top of the presses, for fear of changing the consistency and reliability of the ink.

As well as the need to remove heat, the paper used is often very sensitive to low humidity conditions, which can cause distortion as well as static build up, which in turn can result in paper jams.

The Solution

Four roof mounted evaporative coolers were installed.

Two of the coolers were mounted above packing and finishing areas, to provide cooling for the people working there, and to gently humidify to protect the paper stored there.

The two remaining coolers were fitted at the ends of the two main presses, with highly adjustable and directional plenum boxes, designed to deliver the air to the operators without affecting the ink wells.

The Results

The whole factory is now cooled effectively, without the drying effect created by conventional air conditioning systems, and without any adverse effect on the printing process.

Interesting Facts

Because of the very low energy usage of evaporative coolers compared to any other type of system, the project was financed by a 4 year interest free loan from the Carbon Trust.