



## A cool answer for the environment at Reflex

### The Challenge

It was hot on the 1420 m<sup>2</sup> factory floor. Very hot. Printing presses, UV finishers, cutters and high tech machinery caused sweltering highs, especially in summer.

Our brief? Keep it cool - with a solution that is good for the workplace and for the planet. A system that uses little energy, reduces harmful waste and cost. A mirror to the core values of Reflex, a leader in sustainable packaging in the UK.

### The Solution

Four Cool Breeze QAD230 evaporative coolers with roof mount vents. Clean and green (they use water not cfc's), the QAD230 consumes very little energy and costs up to 90% less than a traditional air conditioner to run.

It is super capable too. Each unit cools 360m<sup>2</sup> by up to 16°C with a continual flow of fresh, filtered air. Hot, stale air is expelled through roof vents. In less than a month from the initial enquiry our system was up and running, and Reflex workers exclaiming (in jest) "it's too cold now!".

### The Result

"For the first time we can see what a well designed evap cooling system can do. We've had evap cooling before, from another HVAC company, but this is infinitely better. The Coolbreeze unit is a revelation. Air Ability are genuine and honest people who were professional and efficient from start to finish. We look forward to working with them again"

Shane Potter, Reflex Labels Limited



Just the job.  
Highly recommended.

We were impressed. Air Ability were good on pricing, knew what they were talking about and then delivered on it. They are clearly engineers at heart, and good ones.

Shane Potter  
Reflex Labels Limited



# Reflex

case study  
evaporative cooling



power to switch and save

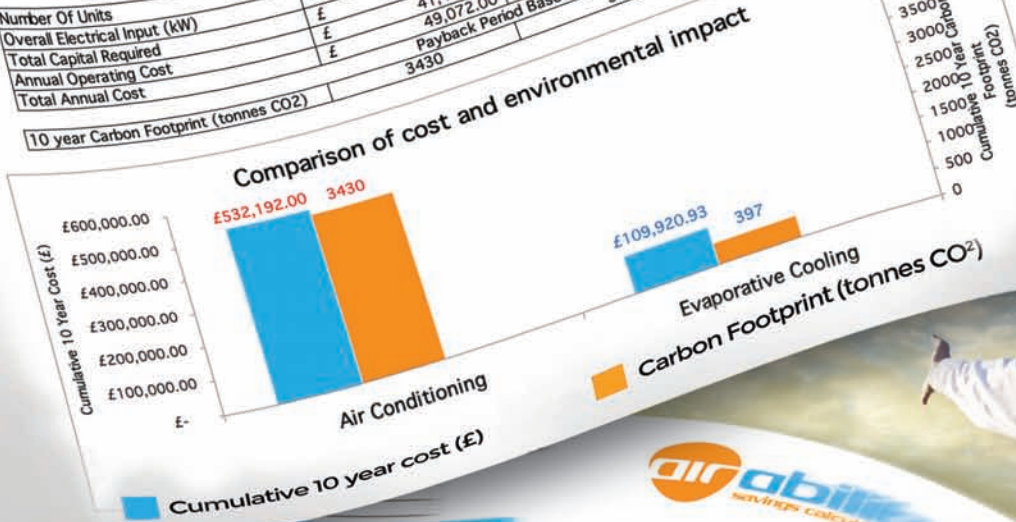


# Air Con vs Evap Cooling: The Savings

Site: Reflex Labels Limited  
 Location: Boston Lincolnshire  
 Date: 7th April 2016

## Air Con vs Evap Cooling: The Savings

	Air Conditioning	Evaporative Cooling	Variance
Number Of Units	20	4	
Overall Electrical Input (kW)	78	10	
Total Capital Required	£ 76,000.00	£ 29,000.00	£ 47,000.00
Annual Operating Cost	£ 41,472.00	£ 7,356.45	£ 34,115.55
Total Annual Cost	£ 49,072.00	£ 10,256.45	£ 38,815.55
Payback Period Based On Savings (years)	3430	397	0.7
10 year Carbon Footprint (tonnes CO2)			3033

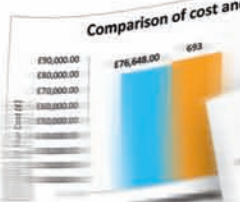


Required Cooling Power (kW)

Number of Units Required	21
Total Capital Required	£ 41,896.00
Annual Operating Costs	£ 3,446.00
Total Annual Costs	£ 7,664.80
Lifetime Carbon Footprint (tonnes CO2)	693

Total Power Of Evap Units (kW)

Number of Units Required	3
Total Capital Required	£ 13,200.00
Annual Operating Costs	£ 287.30
Total Annual Cost	£ 3,907.30
Annual Savings	£ 5,257.45
Payback Time (years)	2.29
Lifetime Carbon Footprint (tonnes CO2)	29.8



# think savings