

## Customers contact and requirements

One of our existing customers that manufacture high end plastic products ranging from fish tanks to police riot protection, their current compressed air equipment on site was aging and in efficient so they invited us in to do an air energy audit to see if we could save them some money on running costs after the Audits it was clear we could.

## Proposed System Overview

### Proposed System KPI's

#### Pressure

- Proposed System Pressure (Bar) 6.81
- Difference Avg / Proposed (Bar) 0.00
- Minimum System Pressure (Bar) 6.34

#### Flow

- Max Possible Supply (m3/min) 10.31
- Maximum Demand (m3/min) 5.7
- % Coverage over Max Demand 81%

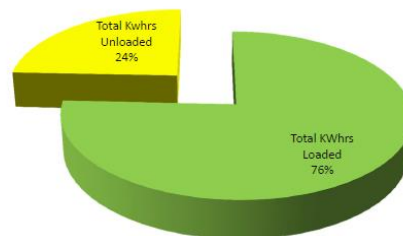
#### New Proposed Power, Costs & Efficiency

- Total System Annual KWhr 110583
- System Running Cost £11,058
- Carbon Emmissions (Tonnes CO2) 31
- System Efficiency (KW/m3/min) 6.64

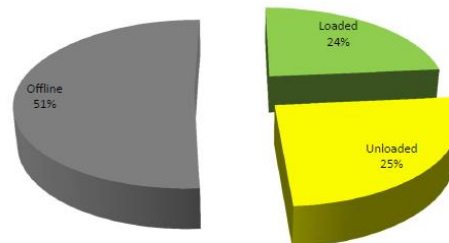
#### Breakdown of Annual Savings

Unloaded Running Eliminated	£3,900
Reduced Pressure	£0
Improved Specific Power	£686
Improved Pressure Control	£401
<b>Total Annual Savings</b>	<b>£4,987</b>
Carbon Savings (Tonnes CO2)	14
Heat Recovery Additional Savings	£0

Current System Overview  
System Load/ Unload (Displayed as % KWhrs)



System Load/ Unload/ Off (Displayed as Time Annual %)



## Our solution

After the results from the report, we installed a Boge SLF40-3 variable speed compressor and refrigerant dryer the compressor and re located the Ecoair D40 compressor as a back up

## Summery and results

The site is now running on the correct sized variable speed compressor saving maximum energy and have full redundancy for service work and unforeseen maintenance. The savings to date are in excess of £5,000.00 and the customer is very happy with our work and the new equipment.

## Clients' comments and testimonial

