

## CASE STUDY

# Premier Foods—Bury St Edmunds

## Energy Efficient Control of Compressed Air Plant and Factory Demand

### The Original Challenge

The compressor house had to move to accommodate additional production machinery with substantial extra air demand anticipated for this busy 24/7 food factory.

### Maziaks' Original Solution

Maziak Compressor Services Ltd organised and completed the move without costly factory downtime, and added extra compressor capacity reused from another Premier Foods site.

The use of an 'Intelliflow' valve has enabled the distribution pressure to be

### The Updated Challenge

In mid 2010 the site was due to increase its air demand further with a new tomato paste process line.

### Maziaks' Updated Solution

The opportunity was taken to install a new 75kW HPC variable speed drive compressor, to add necessary capacity and reduce energy wastage at the same time. The site was keen to use the same HPC brand of screw compressor that had served them well and reliably for over ten years.

reduced from 7 bar to 5.6 bar with resultant energy savings, as the compressors that previously ran flat out now offload and stop even with the additional demand.

The key to this is dry storage capacitance as depicted above, recommended by Maziaks.

### Original Results

Energy efficient control of supply and demand side air pressure has made energy savings for Premier Foods' compressed air system.

### The Updated Results

Maziaks therefore installed the new high efficiency CSDX137T SFC model. This has reduced energy wastage by around £16k per annum.



5000 litre dry storage tank



Intelliflow valve installation

### Contact

Free Phone: 0800 980 9902  
Email: [enquiries@maziak.co.uk](mailto:enquiries@maziak.co.uk)  
[www.maziak.co.uk](http://www.maziak.co.uk)

Unit 1 Stanton Close  
Finedon Rd Industrial Estate  
Wellingborough  
Northants NN8 4HN  
Tel: 01933 222000  
Fax: 01933 222200