



Cyclone Commerce Ltd

Air conditioning ♦ Ventilation ♦ Refrigeration ♦ Facilities Maintenance

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Finalists in the Harlow & District Small & Micro Business of the Year Awards 2004



Winners of the Harlow & District Business of the Year Award 2005

Maintenance – Why?????????

You might say as an air conditioning system owner that with a 5 year warranty and few or no break downs **why spend the money?**

There are 3 real reasons why

1. Climbing Energy Costs
2. Compliance with Current REFCOM UK regulations
3. To ensure you achieve the lifetime value of your investment

The Fluorinated Gas “F GAS” Regulations at a Glance

In 1997 the United Nations agreed to measures to combat climate change, this was to be known as the **Kyoto Treaty**. Most of the world’s leading nations agreed timescale’s to reduce and control the use of greenhouse gasses.

Fluorinated refrigerants used in air conditioning and refrigeration plant contribute to **ozone depletion** and the **greenhouse** effect therefore European and UK legislation has been created to control and, in some cases, completely ban their use.

2006: EU Fluorinated Gasses Regulation

Any Air Conditioning Unit with over 3kg* of refrigerant must be **checked for leaks on an annual basis.**

A register must be kept of equipment and refrigerants which must be available at all times for inspection.

2008: Fluorinated Green House Gasses regulation

Only **fully qualified personnel** are legally able to carry out work in relation to installation, service and repair involving refrigerant gasses.

Only engineers with specific **F-Gas certification** are legally able to carry out annual leakage checks.

R22 Refrigerant Phase Out

R22 is the most common refrigerant gas and currently used in over 60% of air conditioning units in the UK.

From December 2009 the use of **virgin R22 refrigerant has been banned and all stocks destroyed.**

*Hermetically sealed units 6kg or more.



Company Registration No. 03926789
VAT Registration No. 772 3366 20



What are the risks of non-compliance?

- Loss of Insurance cover
- Health and safety litigation
- Environmental litigation
- Business interruption
- Loss of operationally critical units

Climbing Energy Costs and How We Can Help You to Save Money

Regular Servicing

In many business applications much of the electrical equipment such as lighting, computing and display use small amounts of power. In these situations air conditioning may account for **60% or more of the power usage**.

Poorly maintained units can often work at **30 – 40 % efficiency** and can be costing hundreds, sometimes thousands of pounds more to run each year. (Please see example and contact Cyclone Commerce Ltd for your **free energy assessment** mail@cyclonec.com).

Putting in place a simple regular maintenance procedure is not only likely to **save you money** but will **reduce the risk and cost** of expensive repairs.

Planned preventative maintenance regimes deliver the optimum working environment, whilst also reducing costs and helping you in compliance with statutory regulations and compliance.

			Fully Maintained		Un Maintained		
Unit Type in output KW	Power Usage KW hours	Cost per KW hour	Running Hours per 8 hour shift	Cost per annum (250 working days)	Running Hours per 8 hour shift	Cost per annum (250 working days)	Savings per annum
2.5	0.66	0.13	3	£64.35	8	£171.60	£107.25
3.5	0.92	0.13	3	£89.70	8	£239.20	£149.50
10	4.08	0.13	3	£397.80	8	£1,060.80	£663.00
							£1,069.25

An average cost to maintain this site based on 2 x visits per year is £500-.

However here is where it really gets interesting:

Life Cycle Costs

It is generally accepted that most air conditioning of reasonable manufacture has at least a 10 year life span.

So let's look at the asset cost of a typical system

A typical 7 KW ceiling mounted Cassette system such as the one shown should cost between £2,500 and £4,000 to supply and install.

If we took a mean price of £3,000 and an average life span of 10 years the **annual asset cost is £300 per annum.**

However if your compressor (the business end of the system) is operating at twice the daily running hours they should it can **reduce the life of the system by as much as half.**

This means the **annual asset cost increases to £600 per annum.** Over 5 years this **costs the owner of the system £1,500.**

When the additional asset cost is added to the energy saving the savings made by planned preventative maintenance are difficult to ignore. We saved a client over £10,000 per year last month alone.

Here at Cyclone Commerce Ltd we are offering free energy and F GAS inspections contact us to book an inspection that could save you serious money now.

There is limited availability to these inspections so book now as our offer ends May 2010

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TOSHIBA Leading Innovation >>>

