

Mr Alan Bolton
Iskhus

BY E-MAIL

6 April 2010

Dear Alan

AIRCO ENERGY SAVER TRIAL

Thank you for allowing us the opportunity to install our Airco Saver unit with metering devices in your office.

AIRCO SAVER FUNCTIONALITY

The Airco Saver is an electronic control unit which adds state-of-the-art intelligence to air conditioning systems. It provides the consumer with an easy to install, inexpensive upgrade to existing air conditioning systems which results in improved energy efficiency and substantial savings.

Its sensor driven software algorithms are designed to detect thermodynamic saturation and to optimize the compressor accordingly. When overcapacity is detected, the AircoSaver switches the compressor off and avoids inefficient use of energy. (expensive electricity). The fan keeps on running and the air conditioning system makes maximum use of the stored cooling energy in the heat exchanger. Once the stored cooling energy is used up, the compressor can work efficiently again and is switched back on.

Where there is over-capacity the savings will at all times be greater than when there is under capacity.

TRIAL DESCRIPTION

I confirm that for purposes of the test you installed 2 kWh profiling meters on two air-conditioners identified by yourself. One of the air-conditioners was a 7 Amp unit and the other a 9 Amp unit.

The site consisted of a large open plan office where a number of air conditioners had been installed but for purposes of the trial only two units were switched on. This is important as these two units had to perform the function that multiple units would normally perform which has a substantial influence on the results and savings achieved. During the previous test period we expressed concern that the 7 Amp machine were not operating at the same level and that an open window in the office might have influenced the readings.

Over the Easter Week-end the test was repeated with the two air-conditioners set at the same temperature setting and ensuring that there were no open windows.

For purposes of calculating the results the consumption of the 9 Amp air conditioning unit without the Airco Saver unit installed is compared to the consumption of the same unit with the Airco Saver installed.

RESULTS

The results were as follows:

Specification	9 Amp Air-Conditioner without Airco Unit	9 Amp Air-Conditioner with Airco Unit	9 Amp Air-Conditioner with Airco Unit	9 Amp Air-Conditioner with Airco Unit
Start Date and Time	5 March 2010 14:30	12 March 2010 14:30	19 March 2010 14:30	2 April 2010 14:30
End Date and Time	8 March 2010 9:30	15 March 2010 9:30	22 March 2010 9:30	5 April 2010 9:30
Average kW/30 mins	204.703	175.964	177.024	159.19
Average saving		15%	14%	23%

Attached hereto, kindly find the raw metering data, for your attention and for verification.

Regards

Madeleen Wienand