

# AIRCON ENERGY SAVER EVALUATION TEST

2.11.04

## CAMPBELLS SOUP

### INTRODUCTION

The unit to be tested was located in the office of the boiler room. This was chosen as it provided 24/7 running with a constant heat load from within the boiler room. This heat load may change seasonally especially as the shutter doors to the room can be open or closed.

At the time of installation it was noticed that there was a considerable heat increase in the office during the down time of the installation.

The unit for the trial was a Fujitsu ASY10USACW / AOY10USAC

### EVALUATION METHOD

The system would be monitored via run time meters. A time clock would switch operational modes of the Aircon energy saver between operating and bypass every 24 hours at 7.15pm. This would also switch the run meters.

A comparison could then be made between the compressor run time and operational hours, with and without the AES.

## RESULTS

| Date     | Time  | Saver Meter | Non saver Meter | HourS in saver | Hours non saver | saver rate | non saver rate | Saving % |
|----------|-------|-------------|-----------------|----------------|-----------------|------------|----------------|----------|
| 25.10.04 | 12:25 | 459.8       | 683             |                | 5               |            |                |          |
| 26.10.04 |       |             |                 | 14..25         |                 |            |                |          |
| 27.10.04 |       |             |                 |                | 24              |            |                |          |
| 28.10.04 |       |             |                 | 24             |                 |            |                |          |
| 29.10.04 |       |             |                 |                | 24              |            |                |          |
| 30.10.04 |       |             |                 | 24             |                 |            |                |          |
| 31.10.04 |       |             |                 |                | 24              |            |                |          |
| 1.11.04  | 11:00 | 490.4       | 720.1           | 24             |                 | 0.354      | 0.480          | 26.17    |

The savings on the run time of the compressor with the Aircon Energy Saver was 26.17%.

Staff confirmed the office temperatures remained the same.