



## ENERGY SAVING FILE - HVAC SYSTEMS

<b>PROJECT</b>	OPTIMISATION OF WATTS BUILDING MAIN AIR HANDLING UNIT
<b>CLIENT</b>	BRIGHTON UNIVERSITY
<b>RESULT</b>	20% EXTRA ENERGY SAVINGS

EFFICIENT AIR  
 NUMBER TEN  
 THE CENTRE  
 HIGH STREET  
 POLEGATE  
 EAST SUSSEX BN26 6AQ  
 TEL: +44 (0) 1825 748150  
 FAX: +44 (0) 1825 748151  
 ENQUIRIES@EFFICIENTAIR.CO.UK  
 WWW.EFFICIENTAIR.CO.UK

### PROJECT: OPTIMISATION OF WATTS BUILDING MAIN AIR HANDLING UNIT



#### THE BRIEF

Brighton University approached Efficient Air to further optimise the energy performance of the main HVAC system serving the Watts Building. Following a previous energy project by Efficient saving 37,856 kW/hrs/yr. Efficient Air measured and established the system's total Electricity Consumption at 80,845 kW/hrs/yr and Gas consumption at 926,770 kW/hrs/yr an annual cost of £27,497.

#### THE CHALLENGE

The system was a complex dual duct, multi duct 1970's design, with combined supply and extract fans and a three way mixing box. The challenge was to reduce this high energy cost per year, whilst maintaining the comfort levels in the Watts building housing the IT Faculty.

#### THE RESULT

By accurately logging the airflow rates, temperatures and air quality over a 3 month seasonal period, Efficient Air was able to analyse the data to identify, quantify and report further quick win and capital investment opportunities.

#### THE BOTTOM LINE

Brighton University invested £1800 with Efficient Air for a 12 month Optimisation Support Contract to realise a reduction of £5,492 equal to 7360 kW/hrs for Electricity and 208,891 kW/hrs for Gas. Improving the HVAC systems energy Performance by an extra 20% per year.



**EFFICIENTAIR**

## A PARTNERSHIP THAT WORKS....



**University of Brighton**

*“We were delighted when Efficient Air delivered a 40 per cent reduction in fan motor power as a result of the initial project. What is doubly pleasing is by following this up with their new optimisation support service, we have gained further savings to the overall energy costs of the Air Handling Unit.”*

*David Anderson Energy Manager*

*Efficient Air is an independent energy consultancy, dedicated to achieving significant energy savings on it's UK customers' bills by evaluating all aspects of the HVAC system. By retrofitting technically advanced products into air handling units and air conditioning systems energy saving can amount to between 20 and 75 percent for large and medium size energy users.*

*Our independent evaluation service is based upon a proven knowledge of all types of air handling systems, and our ability to quickly calculate the percentage energy savings by installing the latest air movement technology.*

*By investigating thoroughly all aspects of the air conditioning systems, fan installations and related equipment we can guarantee our clients a maximum payback.*

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026  
Certificate number 3785/03

INVESTOR IN PEOPLE

## PLEASE FAX 01825 748151 FOR FURTHER DETAILS

- PLEASE CONTACT US TO ARRANGE A FREE ENERGY AUDIT ON A FAN SYSTEM.
- PLEASE CONTACT US TO ARRANGE AN HVAC SYSTEM INSPECTION
- PLEASE CONTACT US TO ARRANGE A VISIT BY ONE OF OUR ENGINEERS TO DISCUSS THE INITIAL SAVINGS

NAME:.....JOB TITLE:.....

COMPANY:.....

ADDRESS:.....

.....POSTCODE:.....

TEL: .....FAX:.....E-MAIL:.....