



Evaporative cooling for Reed Elsevier Data Room Kiddlington, Oxford



Reed Elsevier have installed a new Data Centre at their offices in Kiddlington, Oxford.

The total Data equipment load within the area will be 45KW and the area is to be cooled using two Celsius EcoCooling floor mounted coolers with the extraction provided through two Celsius ceiling mounted extraction units.

The equipment is mounted in the internal quadrangle of the building which is surrounded by openable windows to cool the three story office block, therefore, the Celsius EcoCooling equipment required attenuating to reduce the ambient noise levels to a minimum. The resulting equipment had a combined noise level of only 54dB(A), when the surrounding peripheral windows were opened the equipment was barely audible.



The Celsius EcoCooling system will save over £13,000.00 per annum in running costs and over 107 tonnes of carbon when compared to air conditioning the area.

In cold periods when the area still needs cooling there is an internal damper that opens and entrains internal warm into the entering cold air stream, thus tempering the incoming air and delivering it at the

correct temperature to the servers, as most Server manufacturers specify a minimum entering air temperature of 5C°. The Celsius 'Atemperation' section is totally unique.