

# FACT SHEET

## Stirling University- Library

### Design & Performance data :

Supply air Volume 37m<sup>3</sup>/s  
 Summer Design Load was based on  
 24°C 50% RH with a supply temperature  
 of 17°C.

This would normally equate to a Chiller  
 Cooling load of **435Kw**, however by  
 utilising **Econet** and **Aquacool** recovery  
 this was reduced to **240Kw** a reduction of  
**44%**.

By utilising the **Aquacool** recovery  
 package a 5°C supply temperature drop  
 was achieved **with no Mechanical  
 Cooling**.

Carbon saved during the summer of  
 2010 due to reduced running hours was  
**17187 kg**, a saving of 95 % against  
 normal running time without Econet.

Heating Design load based on -5°C with  
 a supply temperature of 25°C which  
 equates to a **1340kw** heating load  
 ,utilising **Econet** recovery this was  
 reduced to **630kw** a 47% reduction in  
 Boiler capacity.

### Additional benefits of **Econet** are

Shorter air handling units, due to no need  
 for additional heating and cooling coil.

Possibility of no mechanical cooling  
 dependant on building design.

Further capital cost and energy savings  
 due smaller Boiler, Chiller, Pumps,  
 pipework etc.

**For further information please contact**

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or call

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- **All Year Round Recovery**
- 44% reduction in Cooling Capacity achieved.
- 95% less Chiller run hours in 2010.
- 96% Reduction in CO<sup>2</sup> Emissions.
- 47% Reduction in Heating Energy.



- *The solution was found by using FlaktWoods **Econet**® system combined with eac's unique **Aquacool**® Recovery Package.*

