

# Grimsby Mental Health Unit Grimsby, North Lincolnshire

## HEAT FROM THE SUN—SOLAR THERMAL



Above: image showing a very neat Schuco installation which is aesthetically pleasing and sustainable. The kit comes with full flashing kit.

We were contacted and asked to provide a solution for a Solar Thermal Installation consisting of ten panels on two mental Health units in Grimsby. The solar thermal panels provide hot water for both buildings.

The Schuco Solar Thermal System of 23m<sup>2</sup> (in collector size) provides approximately 1000 litres of hot water per building per day. The Schuco designed panels are the ultimate in flat plate solar technology and are robust, very neat and compact in design.

Schuco provide installation systems for in-roof, on-roof, flat roof, floor standing, vertical wall (façade) and canopy in either portrait or landscape positions for domestic or commercial use. All systems are high quality German engineered, the parts are made from coated aluminium or stainless steel.

### Key Features

- The installation will qualify for the renewable heat incentive; available in April 2011.
- Provides approximately 50 litres per m<sup>2</sup>
- Panel/collectors made with 'Low E safety glass'
- High absorption of 95% (of solar radiation)
- Low Maintenance

## How does it work?

The solar collectors on the roof transfer the radiated heat from the sun through a copper bonded back plate and into an anti-freeze based fluid that flows in copper pipes, this fluid is then pumped through a solar coil in the hot water cylinder.

This heats up the water in the cylinder and switches off when the water is up to temperature. A system should provide 50 to 70% of the domestic hot water needs per year.

The beauty of a solar thermal system means that your boiler doesn't need to be on in the summer for domestic water needs.

### The Benefits

- Provides free water heating
- Reduces carbon emissions
- Extends your boiler lifespan
- Qualifys for the Renewable Heat Incentive



Above: Schuco Compact Line Solar Thermal Water Heating System installed with a 'in-roof' Kit. The kit is installed after the felt and latts are installed prior to the tiles.



**Solar Thermal · Heat Pumps · Solar PV**

Technology Court, Bradbury Road  
Aycliffe Ind. Park, DL5 6DA

[www.revolutionpower.co.uk](http://www.revolutionpower.co.uk)

tel: 01325 320910 email: [info@revolutionpower.co.uk](mailto:info@revolutionpower.co.uk)