

District heating solution for Chartist House



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Keith Rimmer
at Belfry Maintenance

Project: Chartist House,
Cheshire

Products: 8 x GB162 100kW
20 x Solar Panels

Contributors: New Charter Housing
Trust Limited
Belfry Maintenance

Belfry Maintenance of Warrington have taken a novel approach to overcoming a problem in designing a heating system for an apartment block in Hyde.

The 16-storey building comprises 93 flats each with its own hot water cylinder and heating boiler which had become out-dated and inefficient since their installation in a 1993 refurbishment. With environmental considerations now a key factor and anticipating forthcoming HSE legislation to prohibit the installation of individual gas appliances in high rise buildings, an 8-boiler cascade system was specified to provide a centralised district heating and hot water scheme, together with 20 solar panels and, for each flat, an individual compact heat distribution unit.

Having established the preferred replacement system, the next problem was where to position the installation as the 1970's building has boiler room. Whilst this may seem unusual, the roof was the simple answer. A specialist metal pod was ordered and fitted out with the cascade of eight GB162 100kW wall mounted condensing boilers installed in a space saving 4x4 configuration, occupying just 2m² of floor area.

Keith Rimmer of Belfry Maintenance said: “We chose the Bosch system because it has proved very reliable in previous installations we have carried out and because it is especially easy to maintain. The Bosch cascade modulates down to just 19kW and is programmed to operate at maximum efficiency at all times, so we expect very significant cost savings from the heating system. The solar plant is designed to provide the majority of the domestic hot water requirement for around 50% of the year depending on weather conditions.”

For more information on Bosch Commercial and Industrial Heating and its district heating solutions, visit www.bosch-industrial.co.uk

