

Commercial Solar Thermal System for community building

Masjid E Tauheedal Islam Mosque, Blackburn, Lancashire

The building team at the newly built Masjid E Tauheedal Islam Mosque required a sustainable and low cost way of heating water. The Mosque has a high demand for water as worshippers are required to wash before prayer. Dalliam Ltd was tasked to design a solar thermal system which could fulfil the demand for a large amount of hot water and a storage capability of 2000 litres which will deliver 5000 litres per day.

Dalliam's engineers met the challenge by designing a system which used 240 Kingspan Thermomax Tubes, set out in 4 rows of 60, to create the hot water. The next challenge was to store the hot water. This was achieved by using 2 bespoke Gledhill cylinders. One primary 1000 litre twin coil cylinder and one secondary 1000 litre twin coil cylinder, both un-vented. These are connected in a buffer arrangement where the solar coils are controlled in a loading priority by the Thermomax solar controller.

The system has been up and running for a year now and Yunus Natha the Mosque's building manager commented that "they were really pleased with how efficiently the system was installed by the Dalliam team." The Mosque is now running through the summer months without using any gas as the solar thermal system can easily cater for their hot water demand. Yunus also commented:



"the mosque community is really pleased with both the solar thermal system and Dalliam's service, which will have a positive impact on the future of the Masjid E Tauheedal Islam Mosque."

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