

Case Study

Barwell Sports Pavillion



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renewable solutions

Project Value – £140k

Completed – December 2012



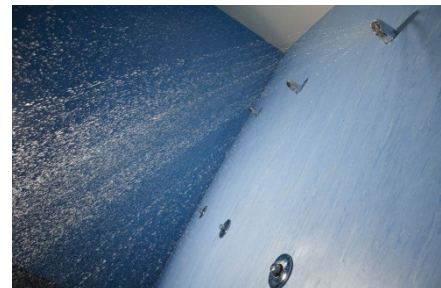
Challenge



Dating from the early 1960s, the old pavilion at AFC Barwell was outdated and no longer suitable for the volume of users it regularly serves. The new facility is expected to entertain over 450 weekly users for football alone, with the site also being utilised for archery and rounders. The FA Charter Standard Community Club worked in partnership with the Leicestershire County FA to secure a grant of £463,200 from the Football Foundation. Having secured funding the club set about the design of their state of the art facility with high priorities for the building to be sustainable and cost effective to operate in order for the community to see the maximum benefit.

The newly constructed pavilion benefits from:

- Changing rooms to FA specification with toilets and showers
- A kitchen to allow the club to provide refreshments
- A general purpose room to be used by the wider community.
- Public toilets
- Disabled toilets
- Two officials changing areas to allow for female officials
- Heating and lighting in line with environmental and carbon emission standards



Solution

Our design team used two Daikin Altherma HT system supplied by Daikin UK Ltd offering maximum flow temperatures of 80°C.

The system was designed at a constant demand to provide 500L of hot water to the shower rooms aswell as heating to the bespoke underfloor heating system.

The demand for hot water is controlled by a bespoke control system which integrates the hot water, underfloor heating and air source heat pumps to operate as efficiently as possible based on a weather compensation system which allows varying flow temperatures dependent on the ambient temperature.

Now complete the sports pavilion is ideally situated for other community users. As football activities are normally evening and weekend based a large part of the week is available for community use such as the local cycling club, local archery club, Mums and tots, A meeting room for other organisations, Training courses, Young people – youth café/disco, Summer holiday schemes linked to the Borough Council.

