

St. Mary's College, Blackburn

Product specification

- BUDERUS GB162 100kW Wall Hung Gas Condensing Boiler x 4
- BUDERUS GB162 4 Boiler Back-to-Back Cascade Frame
- BUDERUS Variable Speed Pump Connection Set x 4
- BUDERUS EM10 Module x 4

'...the GB162 Cascade is engineered for speedy installation...'

After many years of simply adding to the heating system to incorporate the new buildings, St Mary's College needed to provide heating for a newly created £8 million Science and Performing Arts centre. This development provided a perfect opportunity to review the complete heating provision and to upgrade the existing boilers which were becoming increasingly inefficient.

Consultants 'National Design Consultancy' worked together with the Buderus Technical Advisory team to develop a flexible and high efficiency solution to the college's heating and hot water provision with system performance and reliability key requirements.

A 400kW 4 boiler cascade system, which occupies just 1m² of floor space was specified in a 2 x 2 back-to-back configuration. This was ideally suited to its location in a very restricted boiler room which also has difficult and limited access. Speed and simplicity of installation were important as the job needed to be completed within the summer break and run in parallel with the building of the new Science and Performing Arts buildings.

The radical overhaul of the heating system involved the relocation of the main boiler house into what had previously been a smaller subsidiary boiler room described as little more than a large cupboard with an old 100kW boiler only. This new location now provides the heating for the vast majority of the college and houses the four boiler GB162 cascade installation.

Chris Mason of locally based heating engineers James Boardman, carried out the installation and was impressed with the cascade system. "With such a limited time to complete this large project, everything needed to run very smoothly indeed" says Chris. "The GB162 boiler cascade system is engineered especially for speedy installation and the cascade framework went together so well it was a key factor in completing the installation on time."

Controls were also an important feature to maximise efficiency of operation and therefore reduce fuel costs. Whilst time has not yet allowed for an actual assessment of fuel savings, James Boardman's are anticipating a saving of up to 25% resulting from the new installation which also includes a new separate boiler management system to interface with the Buderus boiler controls and which will link together the operation of both plant rooms.



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In the UK, Buderus is a brand name of Bosch Thermotechnology Ltd., Cotswold Way, Warndon, Worcester, WR4 9SW