

## BIDDLE CASE STUDY

# BIDDLE'S EDUCATIONAL IMPACT: A SUMMER OF HVAC EXCELLENCE WITH CLAIRGLOW

## BACKGROUND

With decades of experience in the education sector, Biddle has become synonymous with HVAC in schools, colleges, and universities throughout the UK. Summer 2023 marked one of our most successful summer periods ever. Over the course of a tight eight-week window, aligned with the school holidays, Biddle manufactured and shipped a record number of fan convectors. This achievement underscores our commitment to providing exceptional service to contractors, consultants, and local authorities throughout the UK.

## PARTNERSHIP WITH CLAIRGLOW

A standout collaboration this summer was our work with Clairglow. Based in Sevenoaks, Kent, Clairglow brings over 47 years of industry expertise. Well-equipped and experienced in both commercial heating design and installations Clairglow supply schools, hospitals, and leisure centres across the Southeast. Tasked with refurbishing three schools for the London Borough of Croydon, Clairglow chose Biddle for our expertise in onsite surveys and equipment selection.

“Our successful working relationship started with an on-site meeting with Biddle’s commercial manager Adrian Higginson at the early conception stage of our projects, and we were immediately impressed with the wide range of fan-coil units that Biddle could offer for the different types of on-site applications we needed. Adrian’s sound knowledge of Biddle’s products gave us confidence from the very start. Additional technical support and input from the invaluable Nick Squires ensured that all fan coil units were correctly sized and positioned within all three school projects. Moreover, each and every unit was delivered directly to site and on time, with no delays whatsoever, which guaranteed that all projects were delivered within budget and on schedule.”

-Graham Edwards, Commercial Manager at Clairglow Heating Ltd.



## PROJECT HIGHLIGHTS

For all three schools, we uniformly selected the Forceflow H2 Select Fan Convectors, operating at 70/50°C.

### St Giles School:

Equipment: 16 Forceflow Fan Convectors, 3 DoorFlow2 Air Curtains.

The H2 Select fan convectors, strategically mounted high on the walls to save floor space, were controlled by remote wall thermostats, allowing the control to be maintained easily by the end user. These fan convectors, designed to work at a water temperature of 70°C/50°C, varied in output from 4kW to 8kW, however for uniformity of appearance they were all selected from the same casing style. Additionally, the school’s main entrances were fitted with 3 energy-efficient, filter less DoorFlow2 ceiling cassette air curtains, equipped with E-Controllers for staff convenience and comfort.

## Greenvale Primary School:

Equipment: 26 Forceflow H2 Select fan convectors.

At Greenvale Primary School, our approach involved installing overhead Forceflow H2 Select CS2 fan convectors, which effectively mirrored the functionality of the previously existing overhead ducted fan coil units.

In the entrance lobby and other communal area, a single wall mounted H2 Select F1 fan convector was installed. This unit, designed with a pencil/finger-proof safety mesh, was ideal for lower-level applications in the school's setting.

For the main hall, gymnasium, bathrooms, and ancillary rooms, high wall mounted FS21 style Forceflow H2 Select fan convectors were chosen. These units were strategically placed to ensure efficient heating distribution. In larger spaces, we daisy chained the units, allowing for effective temperature management with minimal manual intervention. This system was particularly beneficial in the hall, where control was simplified to just two out of six units.

All units were fitted with user-friendly controls, including remote tamper-proof thermostats for easy temperature adjustments. Additionally, for safety and efficiency, a low water temperature cut-out feature with adjustable T4 thermostats was incorporated into all units.

This design allowed for straightforward on/off operations without the need to open any casing, streamlining the use and maintenance of the heating system.

## Ridgeway Primary School & Nursery:

Equipment: 13 H2 Select Forceflow Fan convectors.

Configuration: To cater to the diverse heating needs of the school's two main halls, nursery, and kitchen, we installed high wall FS21 Forceflow convectors. Each unit was controlled using individual LTC hot pipe stats and remote wall thermostats.



## CONCLUSION

Our partnership with Clairglow this summer is a testament to our shared commitment to delivering High quality heating solutions in educational settings. The successful completion of these projects not only highlights our dedication to excellence but also Clairglow's proficiency in managing complex heating installations. Together, we have set a new standard in creating comfortable and efficient learning environments.

## CONTACT US

If you're ready to find the perfect HVAC solution for your school, our in-house technical and engineering experts, are on hand for advice and guidance every step of the way.

## BIDDLE AIR SYSTEMS

St. Mary's Road  
Nuneaton  
Warwickshire  
CV11 5AU

T +44 24 7638 4233  
E [sales@biddle-air.co.uk](mailto:sales@biddle-air.co.uk)  
[www.biddle-air.co.uk](http://www.biddle-air.co.uk)

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