INNOVATIVE HEATING SOLUTION HELPS KEEP KIDS SAFE

HVAC industry leader Biddle Air Systems, has supplied an energy efficient climate control solution to maximise child safety and comfort in a Bristol Primary School.

The team at Biddle carried out intensive site surveys and proposed the most suitable climate control product from its world-leading range.

Benefits were immediate, with energy efficiency key and the goal for the children to have a more comfortable and therefore productive classroom environment.

THE CHALLENGE

With complaints that current units used too much space and created an uncomfortable environment, the Primary School recognised that they needed to take a new approach to their heating solution.

Biddle was tasked with delivering a product that would utilise limited classroom space to promote a safe, comfortable and productive learning environment; whilst complementing the school's new energy efficient boilers to maintain optimum energy saving levels.

THE SOLUTION

With a focus on energy efficiency, child safety and comfort, Biddle conducted a thorough site survey and proposed Forceflow Low Surface Temperature (LST) convectors in an FS2 style.

The FS2's sloping discharge unit meant air distribution would be at a 45 degree angle – blowing air up and over the children, rather than directly at them.

With a maximum operating surface temperature at 43 degrees, and a heating output at twice the level of an average LST radiator, the compact Forceflow LST heats up quickly and maintains temperature whilst being safe and utilising space effectively.

Biddle

THE RESULT

- Better use of the space with smaller, less bulky fan convectors which meant that the heaters were less intrusive.
- Air distribution was at a more suitable angle, creating a more comfortable environment that meant children could be more productive and focus more clearly on their learning.
- A safer learning environment for children that complies with DHSS Engineering Data DN4 and NHS Estates Health Guidance Note ‘Safe Hot Water and Surface Temperatures’ 1998.
- With a lower surface temperature but twice the heat of a normal LST radiator, the solution helped to optimise the energy efficiency of the schools new energy saving boilers.

FORCEFLOW LST

THE CONCLUSION

Douglas Bench, Director of Sales at Biddle Air Systems comments: “Our team is committed to installing solutions that are the most effective for each individual client and their unique requirements.

As a leader for heating, ventilation and air conditioning products, we know that everybody, whether in a workplace or a classroom, works best when they are in a comfortable environment.

Part of making sure that an environment is at an optimum level for performance is controlling the climate. In schools, it is equally to ensure the safety of children at all times.

With the Forceflow LST, the unit will distribute the same amount of heat, and be as effective as a standard fan convector unit; but the actual surface temperature will remain lower, and therefore safer.”