

London school contract puts Heat Recovery in the limelight



Fläkt Woods has won a recent education contract in London. At Ark Academy in Wembley, eQ AHU's with thermal wheels are being provided to enhance air quality and improve energy efficiency.



■ FACTS

Customer:

Ark School in Wembley, UK

Need:

Enhanced air quality and improved energy efficiency.

Solution:

eQ Air Handling Units with Thermal Wheels and Run Around Coil.



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Fläkt Woods has won a recent education contract in London. At Ark Academy in Wembley, AHU's with thermal wheels are being provided to enhance air quality and improve energy efficiency. The Ark School in Wembley is an all-through academy for 3–18 year olds, in new state-of-the-art accommodation.



Working for Mitie Engineering Services (SE) Region who are engaged as the design and build contractor, Fläkt Woods is supplying four new AHU's from their eQ range, two fitted with thermal wheels, as well as one with a run around coil.

The eQ range is a new, highly adaptable air handling unit, offering a range of individual features; intelligent controls, energy efficient components and a flexible design, means that the eQ is perfectly suited for the educational sector.

By combining products into a system, Fläkt Woods has achieved the best energy solutions possible. This strategy requires that the systems and individual components are designed together.

Fläkt Woods' thermal wheels provide the most efficient method of energy recovery. They will recover up to 85% (typically 75-85%) of the energy in the extract air, and are normally made of aluminium (although other materials are used) which rotate slowly vertically, to the supply and extract airflows.

The high efficiency run around system is ideally suited as energy saving is a paramount requirement for the facility. The system will significantly reduce the overheads to the school, which has been environmentally designed by architects Studio E.

Pupils will have access to specialist indoor and outdoor sports facilities, excellent ICT facilities, music and drama studios and a 150 sq m, well stocked and up to date library as well as inviting and well-equipped classrooms. The academy has been laid out with the three and four storey secondary school, adjoining the double height sports building. The two-storey primary school and nursery is at right angles to the secondary school with its own entrance.



Fläkt Woods Group

Fläkt Woods is a global company providing solutions for ventilation and air treatment for buildings as well as fan solutions for Industry and Infrastructure applications.

By combining their dedicated range of Chilled Beams, Air Handling Units and Air Cooled Chillers, Fläkt Woods has been able to produce some of the most efficient and green indoor air quality (IAQ) solutions currently available within the Building Services Industry.

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