

Energy efficient air handling solution for Frankfurt University



Fläkt Woods Germany has completed an order to supply the air handling requirements for the University of Frankfurt, with a value in excess of €800,000. The Company has supplied 13 of its EU supply and exhaust air units. All units feature Fläkt Woods' Econet system and are linked to a central controller, which is connected to the building management system via ModBus.

■ FACTS

Customer:

Frankfurt University, Germany

Need:

Energy efficient ventilation solution that can meet any air handling requirement.

Solution:

Fläkt Woods' EU air handling units with Econet® that integrates energy recovery, heating and cooling.



“Reliability was a particularly important aspect”

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Econet consists of one supply and one exhaust air coil as well as a transfer circuit to which all the heating and cooling energy systems are connected. By doing this, fewer components are required such as heating/cooling coils, pumps, valves, piping, insulation etc.

One result of this is that the heat recovery efficiency is improved by approximately 10-15% compared to a traditional run around coil.

These systems are ideally suited for educational buildings as there is no risk of odour, bacteria transfer, and because there is no need for an additional heating and cooling coil, the units are extremely compact.

Reliability was a particularly important aspect of winning the contract, as well as the quality of the pump and the machine diagnostic/early warning systems, guaranteeing the pump operates faultlessly. Econet also features a redundant pump solution; a safety-related feature ensuring the redundant pump automatically starts upon failure of the running pump.

The EU units were installed within the two-storey foyer, which forms the backbone of the slender and long building, accommodating seminar rooms, the library and the cafeteria. Despite the difference in level of 3.5m, the foyer's two storeys allow for an access at ground level from both of the University's flanking streets.

Frankfurt University was founded in 1914 and has six lecture halls, which are located in the base of the building; these underground halls receive daylight from the sides via patios, cut into the square.



The EU range

The EU range offers all needed functionality and high degree of flexibility. The sturdy frame members and corner pieces form a very stable framework which is well suited to the full range of sizes.

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.

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