

Complete ventilation solution with Econet energy recovery for Frankfurt Airport



Frankfurt International Airport is undergoing massive expansion, and Fläkt Woods has been awarded a €2 million contract to supply air-handling units on the scheme. Europe's second biggest airport is mid way through a programmed development, which sees the owners, Fraport A.G. spending altogether €3.3 billion on a new runway, a third terminal, and an A380 maintenance base.

■ FACTS

Customer:

Fraport A.G./Frankfurt Airport

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.



Econet integrates energy recovery, heating and cooling

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Working for Imtech 4, one of Europe's largest contractors, Fläkt Woods is supplying 22 EU air-handling units featuring the Econet energy recovery system. These will be used to climate a new building at the airport, known locally as the "CD-Link". It links the old Terminal 1 Gate C and the new Terminal 2 Gate D.

The new structures will support the arrival of the A380 aircraft. Several new business and senator lounges (Iberia and Air France) will also be constructed and these gates will be open in the spring of 2008.

Fläkt Woods' modular air handling units offer full flexibility allowing different sizes and functions to be combined to meet virtually any air-handling requirement. The EU range supplied for the contract, sized between 21 to 84, provide functionality with a high degree of flexibility.

Under the contract Fläkt Woods is also responsible for the installation of all the water piping.

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Additionally the equipment has been fitted active carbon filters (a total of 3700 carbon filter tubes) ensuring ultimate air quality.

All of the air handling units will feature Fläkt Woods' upgraded Econet® energy recovery system, incorporating changes that have made it 70-75% efficient (50% more efficient than plate heat exchangers) and more versatile than any other HVAC system currently available. Econet integrates energy recovery, heating and cooling into one set of coils, so components, such as heating/cooling coils, pumps, valves, piping and insulation, are no longer required.

Advanced Econet also optimises the energy recovery using a new pre programmed control system, which constantly ensures the minimum amount of energy is used to meet the air requirements. Econet is supplied with a prefabricate pump unit. All necessary components for optimising the energy recovery as pump, frequency inverter, controls and necessary valves and sensors are included. This reduces installation time, saving both time and money.

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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