

RETROFIT SECTORS

The economic and energy saving potential of HVAC systems with EC proportional fans is very relevant. In sensitive applications, the risk of failure can be almost completely eliminated thanks to the redundancy of the ECFanGrid.



Public buildings

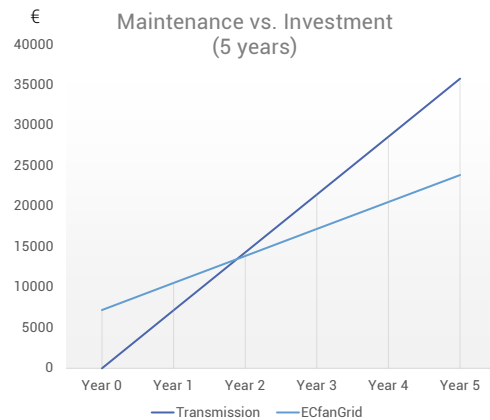


Pharmaceuticals

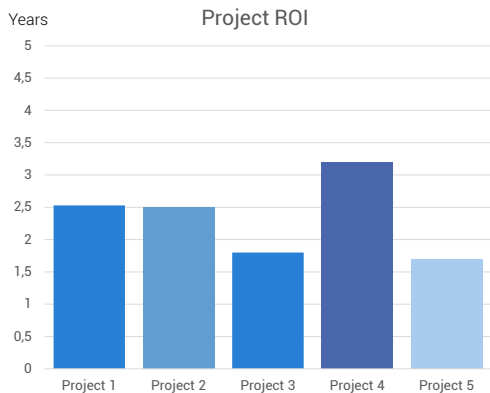


Industry

Efficiency calculations

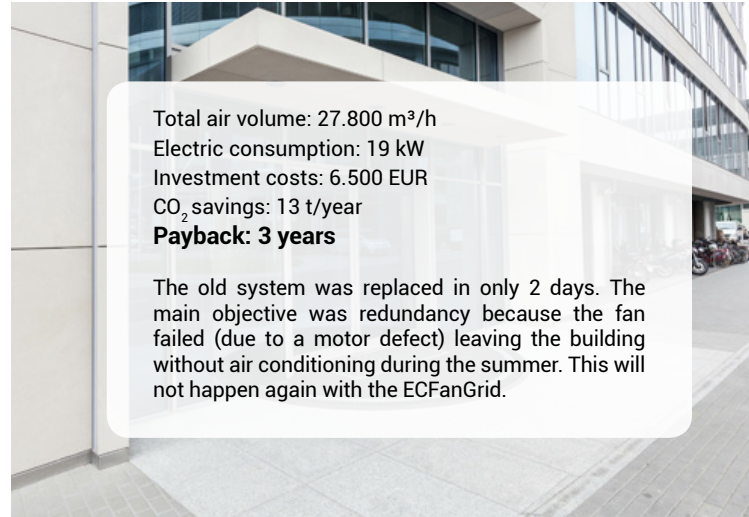


Calculate the savings of your project on the [Airtecnics' website](http://airtecnics.com)



CASE STUDY

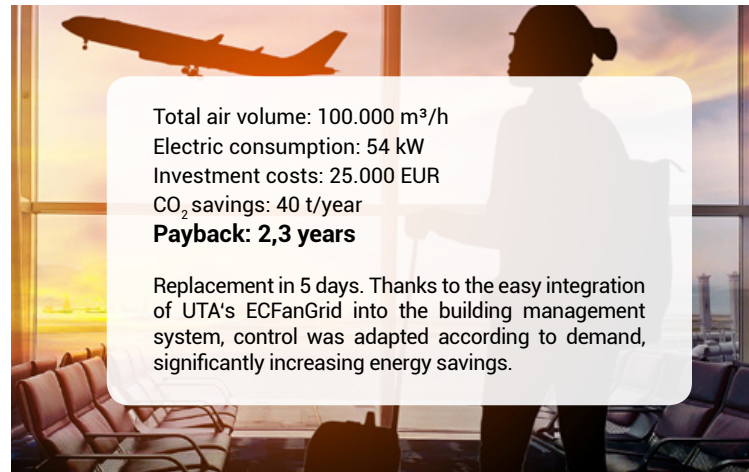
OFFICE BUILDING



Total air volume: 27.800 m³/h
 Electric consumption: 19 kW
 Investment costs: 6.500 EUR
 CO₂ savings: 13 t/year
Payback: 3 years

The old system was replaced in only 2 days. The main objective was redundancy because the fan failed (due to a motor defect) leaving the building without air conditioning during the summer. This will not happen again with the ECFanGrid.

AIRPORT



Total air volume: 100.000 m³/h
 Electric consumption: 54 kW
 Investment costs: 25.000 EUR
 CO₂ savings: 40 t/year
Payback: 2,3 years

Replacement in 5 days. Thanks to the easy integration of UTA's ECFanGrid into the building management system, control was adapted according to demand, significantly increasing energy savings.



MODERNIZATION OF VENTILATION AND HVAC EQUIPMENT



airtecnics.com



COMPLETE SOLUTION

Reduces energy costs by an average of 50% and reduces CO2 while protecting environment.

An ECFanGrid consists of an array of EC fans operating in parallel. The flow rate is multiplied proportionally to the number of fans, while the pressure conditions remain constant.

Highly efficient EC fans are the perfect combination of motor, electronics and turbine.

They allow simple plug & play solutions for any ventilation need.

Replaces obsolete fans



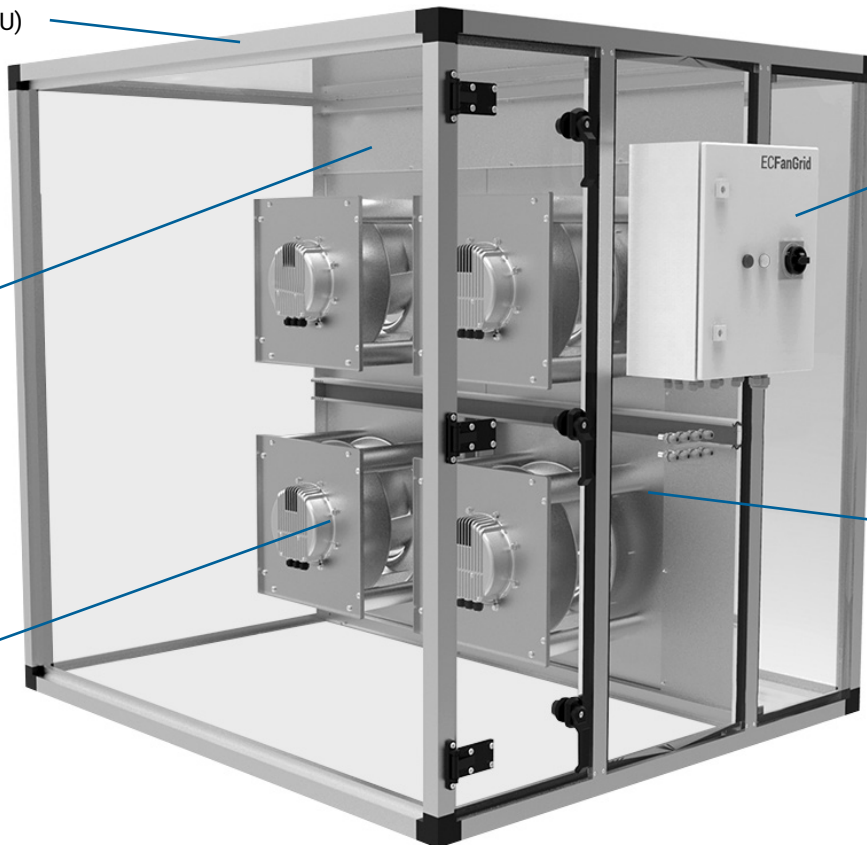
Retrofit mounting kit with all components included for the replacement of old fans.

Existing Air Handling Air Treatment Unit (ATU)

Adaptable plates for sealing



EC Plug Fan proportional and high efficiency



Central control and regulation box. Can be integrated into the BMS building management system.



Tailor-made Easy installation



ADVANTAGES OF AN ECFANGRID

SAVINGS AND EFFICIENCY



By replacing old, inefficient fans with high-efficiency EC fans, we can save around 50% energy and CO2.

By relatively low investment costs (about 3% of the air conditioning system cost), we can reduce the operating cost of the system by up to 70%. The investment is recovered over a period of 2 to 5 years on average.

3 years  **50%**

APPROXIMATE AMORTIZATION

ENERGY SAVINGS

RELIABILITY AND FLEXIBILITY



ECFanGrid offers an enormous degree of reliability thanks to its redundancy. In the unlikely event of a fan failure, the remaining fans automatically increase speed to compensate for the loss of airflow.

The combination of fans allows the unit to adapt much better to any duty point.

