EC PLUG FAN UPGRADES

Munters Global Services

Pre Upgrade example

Post Upgrade example

EC Plug Fan Upgrades for Dehumidifiers & Air Handling Units (AHU's)

Munters
Your Perfect Climate

ABOUT EC PLUG FANS

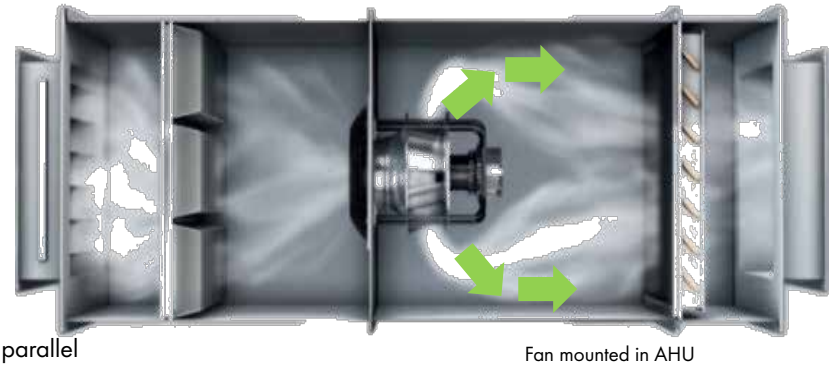
Energy efficiency has become an integral part of building services design, maintenance and upgrade. Many organisations overlook air handling units (AHU's) when looking to save energy. Upgrading AHU's with plug fans using EC motor technology can realise significant savings in energy, maintenance and more.

ADVANTAGES & BENEFITS:

- Reduce energy consumption by up to 75%
- Reduce running costs
- Saving on labour and maintenance costs
- No more belts to change
- No more bearings to grease
- Reduce CO2 emissions - help meet targets
- Improve speed control
- Save costs by modulating fan speed
- Upgrading instead of replacing AHU's saves time, money and resources

FEATURES INCLUDE:

- High fan efficiency
- CO2 level monitoring
- High performance impeller design
- Low noise emissions
- Low vibration
- Robust and reliable design
- Easy connection with safe start up
- Redundancy due to several fans running in parallel



Fan mounted in AHU

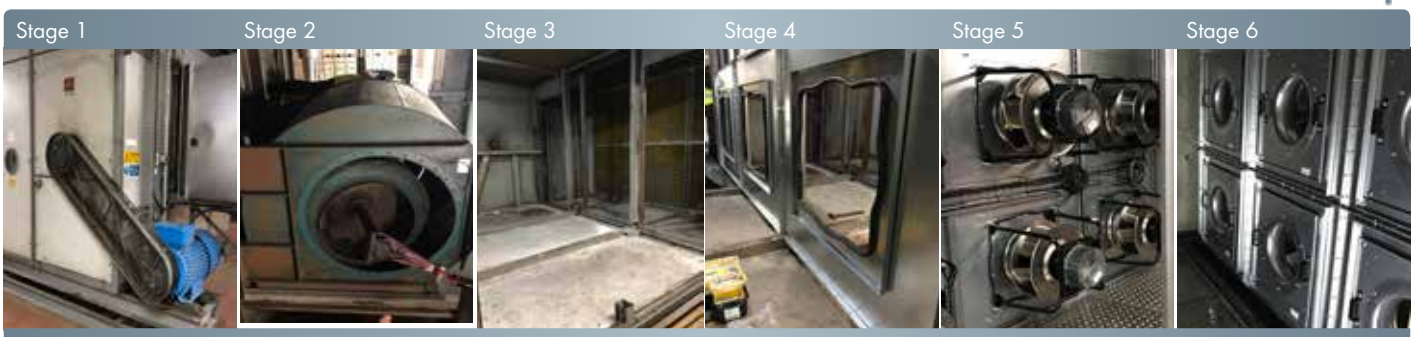
AHU UPGRADE SAVES 58% ENERGY AT BIRMINGHAM AIRPORT

Birmingham Airport is the 7th largest airport in the UK, flying around 13 million passengers to over 150 destinations each year. Munters upgraded the AHU in the terminal check-in area with a new FanGrid made up of five high efficiency EC centrifugal plug fans.

As well as reducing energy consumption, these fans have reduced maintenance costs for the AHU's, provided better controllability and reduced noise.

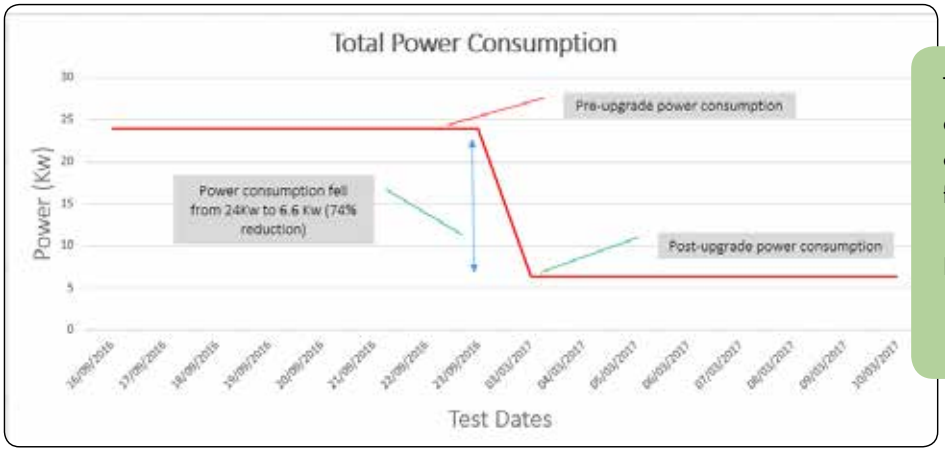
The project has surpassed requirements, with power consumption reducing from **24 kW to 6.4 kW**. This is predicted to save the airport over **€ 12,500** per year, with an ROI (return on investment) of **19 months.**

THE INSTALLATION PROCESS



This shows the installation process from removal of the belt driven fan(s) to the installation of the new fans, which is carried out by Munters Service engineers. Munters has proven examples of completing upgrades in less than one day, minimising disruption and downtime (varies by customer).

CASE STUDY - PROVEN ENERGY SAVINGS



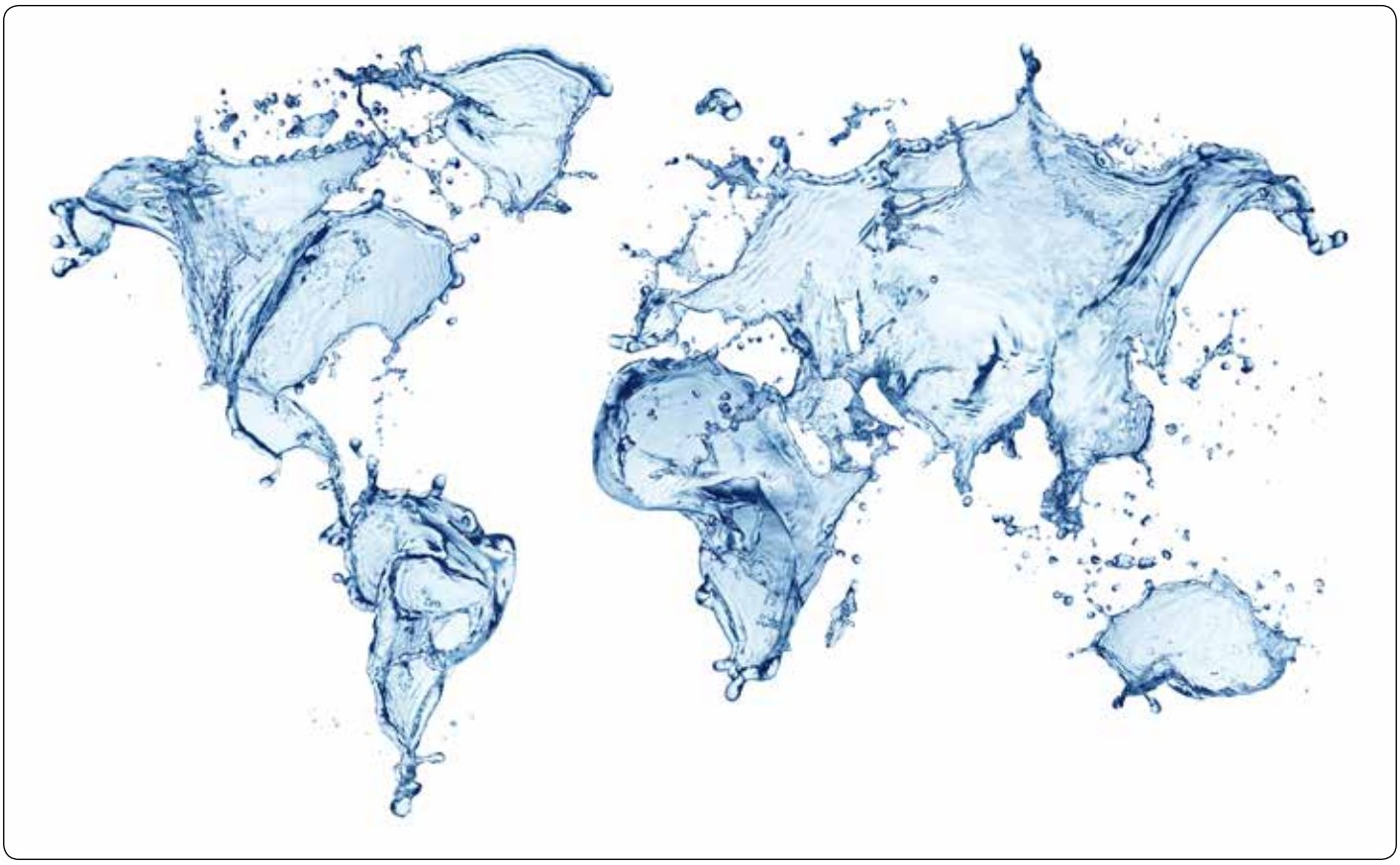
This real-life example demonstrates the energy savings calculated by changing one customer's fans from belt driven to EC fan technology.

Power consumption fell by 74%.

FAN GRID CONFIGURATION

WHY CHOOSE MUNTERS

- FREE, full survey report and data logging service
- Remove the guesswork - Munters proposals are based on **actual power use** to forecast expected savings
- Fast installation - Munters unique modular frame and fan plate system reduces downtime
- Total AHU upgrade solution option - Munters looks a the entire system to ensure the best possible performance
- Global leader in the design, manufacture and service of dehumidification and air treatment solutions
- Network of In-house Service engineers, offering a range of service solutions
- Credible & proven Globally with over 60 years expereince



An international name, where the customer comes first.

Munters has offices in 30 countries and over 3,000 employees in many branches around the world. We are global leaders in energy efficient air treatment for comfort, process and environmental protection. Munters shares ideas within its international network, giving the Group an outstanding reputation as a reliable, fast-acting and customer-orientated expert in air conditioning. Munters philosophy of customer satisfaction is central to our decision-making. When developing and manufacturing our systems, we see happy customers as our number one target. And this is what our employees strive to ensure every day.

For more information on Munters, please visit www.munters.com

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