

Energy Savings with Fan Upgrades



Why do it?

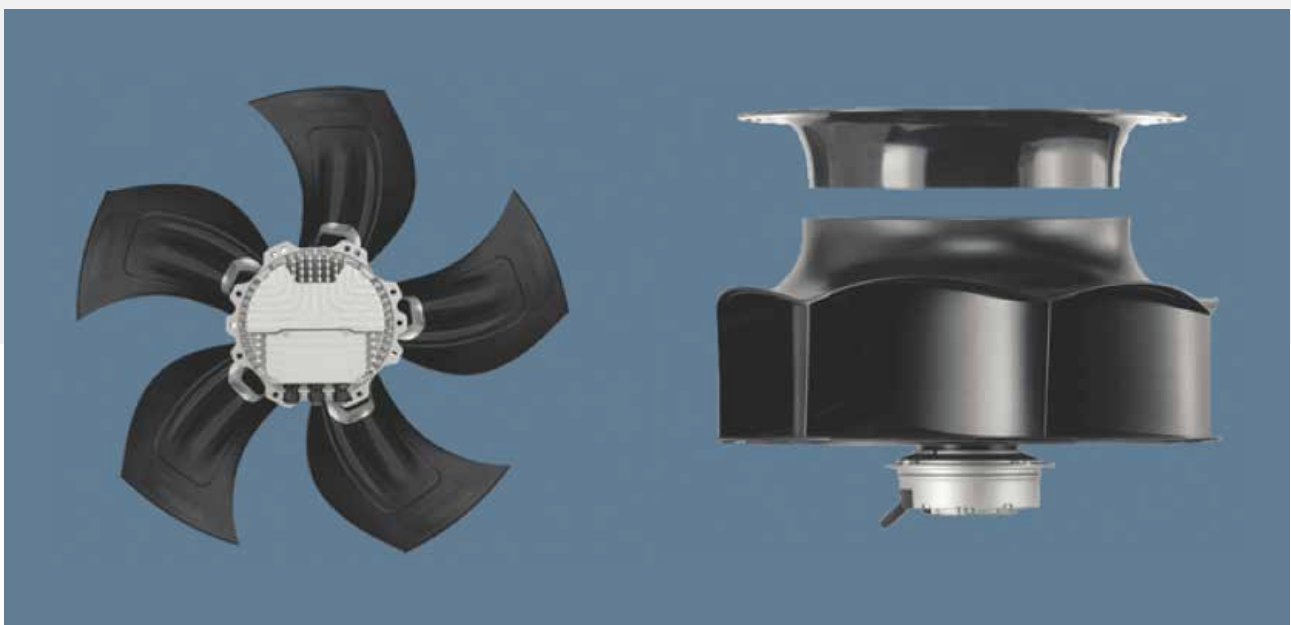
If you are an Occupier or Operator of an Air Conditioned Commercial property, with Multiple Air Handling Units or packaged Air Cooled Chillers or Dry Coolers, then one of the biggest challenges is where and how to save Energy. The Commercial Building type mentioned will typically consume 40% of the total Energy spend on HVAC equipment. Making it more energy efficient can offer considerable energy and CO2 savings.

Many older Commercial buildings with HVAC equipment continue to use inefficient equipment, and rather than having to buy brand new equipment, a more cost effective option is to upgrade the fans fitted to the existing equipment to new high efficiency EC fans.

EC technology is intelligent technology, they use integral electronic control in the fan to ensure that the motor always runs at optimal load.

EC stands for Electronically Commutated and it combines AC and DC voltages, bringing the best of both technologies. The motor runs on a DC voltage but with a normal AC supply. These fans are capable of intelligent speed control with further reduced energy consumption. They are a far better option than just an Inverter replacement.

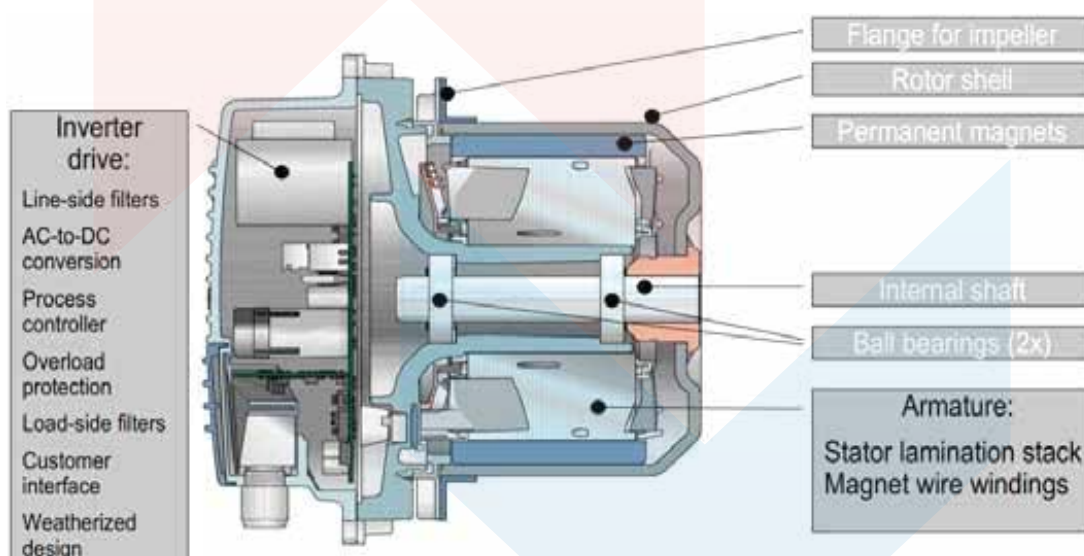
Upgrade your ventilation or chiller fans and **save up to 35% on energy costs.**



Key Benefits of Upgrading EC Fans

- (01) Up to 70% reduction in energy consumption
- (02) Integrated, infinity variable speed control
- (03) Reduced noise
- (04) EC fans offer built in speed controllers that can be pre-programmed or easily compatible with BMS systems for demand ventilation
- (05) Payback periods as low as 2 years
- (06) Direct drive motors for maintenance free operation
- (07) They are directly interchangeable with the existing fans, allowing for simple replacement with minimal disruption

The Key Components



What Type of Fans Can Be Upgraded?

ambientAir provide replacements for all types of ventilation and Air Conditioning Chillers, Dry Coolers, and Fan Coil Units, these include EC Centrifugal fans, EC Axial fans, EC forward curved blowers and EC plug fans.

Axial Fans



Centrifugal Fans



Plug Fans



What Process is Involved in a Change Over?

ambientAir undertake a simple process to ensure that the project will work and deliver the savings. We follow a straight forward system as follows:

Step 01

From the outset, we carry out a full survey of your equipment to identify what equipment you have, and how it's used. Our experience in upgrading all types of systems means that we can quickly offer some general advice on the potential savings and paybacks.

Step 02

Identify the savings and create an estimate of the savings potential from our initial survey. We will then work out the detailed estimates of the Energy Consumption savings, CO2 saved and the financial savings and payback, vs the cost of the project

Step 03

Verify the Savings Potential. We would measure the consumption data of the relevant fans to be upgraded and because of our sheer number and type of previous projects we will be able to demonstrate what has actually been achieved and what you can expect from us.

Step 04

Finally you'll have all the information you need for completing the upgrade. Whether you opt for a total project completion or in a phased programme over several months is entirely your choice, but you'll have the detailed information you need on both savings and costs to plan a successful energy reduction project.

Simple Fan upgrades can take just a few days, whereas more complex and multiple units can take substantially longer. You can be assured that ambientAir have the expertise and track record to complete the works without major disruption and minimal inconvenience.



Contact Us

For more ambientAir guides and information then contact us today!

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