

Supermarket fan upgrade leading to big savings

Air-conditioning unit upgrade in Victoria



Air-conditioning fan upgrade

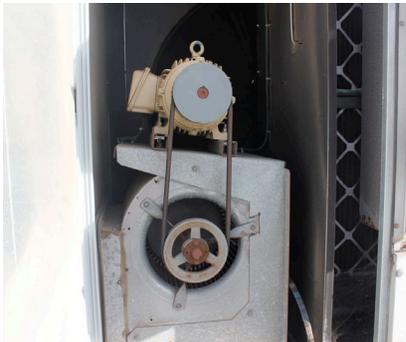
- Save up to \$8,740 per year
- Up to 70% reduction in fan power use
- Service- and maintenance-free design



Savings potential

The project

Benefits of EC Upgrades



Simple fan replacement can save you up to 70% in total fan power.

Think about this: each typical Australian supermarket houses a split-type air-conditioning unit. Each of these units is run using a 7.5kW motor (as shown in the picture above). The operation of this fan motor alone will cost around \$12,500 per year.

Upgrading to a more efficient, direct-drive EC fan (pictured top right) can save you up to \$8,740 per year.*

* Calculations based on 19c/kWh, 24/7 operation.

Computer Cool, a Melbourne-based contracting firm, have recently completed fan upgrades on split-type commercial air conditioners in Blackburn, Victoria.

The project was undertaken to analyse the effectiveness of the replacement of conventional, belt-driven forward-curved fans with new ebm-papst EC direct-drive backward-curved fans into APAC air-conditioning units.

The upgrade led to a 41% reduction in input current, equivalent to an estimated annual cost saving of \$5,120. The unit cooling capacity and airflow remain unchanged.

The results were confirmed by static pressure and room air temperature readings.

Reduced maintenance

In addition to power savings, ebm-papst EC fans are direct-drive fans and therefore do not need belts, pulleys or other equipment to speed control, further reducing operation costs.

Easy installation

The installation of an ebm-papst EC fan (pictured above) typically takes less than 3h, avoiding down time and keeping installation costs down.

Next steps

To find out about savings in your supermarket, enquire direct by calling ebm-papst Market Manager Thomas Heine (0437 542 626) or ask your existing maintenance contractor about EC Upgrades from ebm-papst.