



Press release

Walk the talk to benefit from energy efficiency and noise savings

Training room AHU upgrade at ebm-papst A&NZ

Glenn Shreeves and his team from Deco contracting retrofitted the ebm-papst A&NZ training room in Melbourne with ebm-papst high-efficiency EC fans. By doing this the fan power consumption dropped by 60%.

Replacement unit

The original fan was a standard 9 by 9 inch double fan deck with a three-speed single phase motor. Glenn replaced this fan with an EC fan deck consisting of two EC fans assembled and wired to an adapter plate that fits into the existing space. The fan deck was also fitted out with two FlowGrids to reduce fan noise.

The results

The EC fan achieved a 60% reduction in input current in comparison to the original fan at same air flow. The original fan was a three-speed fan with a performance difference of only 200l/s between high and low speed, which equates to about 15%. This resulted in a speed range between 100% to 85% air. With the new ebm-papst EC fan, users get infinite speed control and an increase in performance of 20%, resulting in an available speed range of between 10% and 120%. EC fans already give around 60% savings at the same airflow, but by being able to reduce the airflow even further additional savings can be achieved.

To stay within the permissible air volume rate of the unit, the minimum and maximum speeds were programmed into the fan, ensuring that the air-conditioning unit is running within its design range at all times.

The installation process

The retrofit was carried out by Deco Contracting, after a review of the mounting and ductwork situation. The old fan was removed, and replaced with the new fan within the existing ductwork via an adapter plate. This resulted in an easy installation which was completed in about 2.5 hours.

The fans are now in operation, with the project having been very successful in improving the system's capacity and noise criteria. Power savings across the speed range were measured at between 63% to 78% with a reduction in noise of 2dBA across the speed range. The payback time lies between 1.6 and 5.3 years, dependent on the running hours, and annual savings of at least \$520.

If you want to find out how this and other EC products from ebm-papst can help your bottom line please contact Thomas Heine from EC Upgrades or visit <http://www.ECupgrades.com.au>.

Video link: <https://www.youtube.com/watch?v=rQDAq8mLzuY>.

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Figure 1: The team from Deco and ebm-papst



Figure 2: New ebm-papst EC fan deck

About ebm-papst

The ebm-papst group is the world's leading manufacturer of fans and motors and is a pioneer and pacesetter for ultra-efficient EC technology. ebm-papst fans and motors are represented in many industries, including ventilation, air-conditioning and refrigeration technology, household appliances, heating engineering, in IT/telecommunications, in medical technology and in applications in automotive and commercial vehicles engineering. ebm-papst EC motor technology, and the market leader's engineering and logistics expertise will add value to your business.

Find out more about ebm-papst A&NZ on www.ebmpapst.com.au.

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