

Improving Dust Extraction for a Joinery in Christchurch - TECO Electric Motors Australia and New Zealand

Canonical: <https://electricmotors.teco.com.au/challenges/improving-dust-extraction-for-a-joinery-in-christchurch/>

Details:

Rotating the World Sustainably & Reliably with TECO's Solutions TECO Oceania TECO Home Appliances TECO Energy Solutions About Us Case Studies Articles Spare Part Enquiries Distributor Log in CONTACT US 0 Cart Case Studies

Improving Dust Extraction for a Joinery in Christchurch

Location : Christchurch, New Zealand

Industry : HVAC

Application : Dust Extraction Fan

Project: Soft Starter Replacement with F510 VSD

A Christchurch joinery faced challenges after moving to a new factory. Their existing dust extraction unit was not performing adequately in the new environment. This impacted the health and safety of the staff due to insufficient dust extraction rates.

The primary challenge was the limitation of the existing dust extraction unit, which operated on a soft starter limiting the fan speed to 50Hz. This was insufficient for the new premises, necessitating a solution to enhance extraction rates.

Solution:

Installing a TECO F510 Variable Speed Drive (VSD)

The TECO F510 VSD allowed the customer to safely increase the fan speed to 60Hz, effectively meeting the required extraction rates.

Compact and Durable Design: The TECO F510 37kW features an IP55 design, enabling installation directly on the wall of their building without the need for additional costs or space for an electrical cabinet.

Benefits to the Joinery:

Improved Extraction Rates: The new setup improved dust extraction without needing mechanical modifications to the existing fan.

Cost-Effective Solution: The TECO F510 VSD allowed the customer to meet their new extraction requirements without changing the fan or mechanical installation.

Results:

The installation of the TECO F510 VSD led to significantly improved dust extraction rates, enhancing the health and safety of the staff at the joinery. This solution provided a cost-effective and efficient way to address their challenges in the new premises.

For more information on how TECO can help improve your operations, please [Click here](#)

Posted on July 22, 2024

[Prev](#)[Previous](#) [Next](#)[Next](#) [Next Story for you](#) [Robust Solutions for Heavy-Duty Mining Applications](#) [Read more](#) [Reliable Upgrades for Crucial Waterways Infrastructure](#) [Read more](#) [Precision and Power for Heavy-Duty Crushing Applications](#) [Read more](#) [Optimising Mining Operations with TECO's Advanced Drive Solutions](#) [Read more](#)

© Copyright 2025 TECO Pty Ltd

[Products](#)

[Electric Motors](#)

[Variable Speed Drives Solutions](#)

[Low Voltage Motors](#)

[Medium and High Voltage Electric Motors](#)

[Low Voltage Variable Speed Drives](#)

[Medium Voltage Drives](#)

[Invicta Vibrator Motor](#)

[Motor Controls](#)

[IoT - MHM and Smart Motor](#)

[Soft Starters](#)

[Sitemap](#)

[Customer Service](#)

[Frequently Asked Questions](#)

[Online Enquiry](#)

[Sales T&C](#)

[Privacy Policy](#)

[Teco](#)

[Our Story](#)

[Contact us](#)

[Sustainability](#)

[News](#)

[Technical Articles](#)

[Glossary](#)

[Mobile App](#)

[Modshop](#)

[Social](#)

[LinkedIn](#)

[Youtube](#)

<https://electricmotors.teco.com.au/wp-content/uploads/sites/53/2026/05/ISO9001-Intertek-SAI-Global-Certificate-QEC3088-Expiry-25-May-2029.pdf> <https://electricmotors.teco.com.au/wp-content/uploads/sites/53/2026/08/ISO45001-Intertek-SAI-Global-Certificate-0185118-Expiry-22-August-2027.pdf> [Enquire](#)

Now Selectors Preferred Service Center Enquire Now Selectors Preferred Service Center
<https://electricmotors.teco.com.au/contact-us/> tel: +61297658118

+61 297 658 118

[Enquire Now](#)

[LinkedIn](#)

[YouTube](#)

[Skip to content](#)