



MANSFIELD POLLARD
AIR MANAGEMENT EXPERTS

AIR HANDLING UNIT REFURBISHMENT

MORRISONS - PERTH
case study



THE PROJECT:

Mansfield Pollard's refurbishment team were quickly on site to provide a solution after an **interruption in supply air** to the Morrisons store in the centre of the city of Perth.

Upon inspection, the existing belt driven fan had suffered catastrophic damage due to the shaft shearing completely from the impeller. More critically, with the **9m³/s AHU** being completely out of service, this prevented the supply of any heated air across the main store shopping aisles, **significantly impacting customer and staff** comfort levels.



THE SOLUTION:

Due to the size of the existing fan, a like for like replacement would require a split casing and involve costly lifting equipment to allow the fan to be assembled in position. The innovative solution was to replace the existing belt driven fan and motor with a **FAN WALL** of **ULTRA-HIGH EFFICIENCY**, direct drive EC. plug fans.

THE BENEFITS:

IMPROVED RELIABILITY

EC fans are direct driven which means no belts and pulleys

EFFECTIVE REDUNDANCY

if one of the four EC fans were to fail, the remaining fans can continue to operate to provide airflow

FUTURE PROOFING

Eliminates multiple points of failure such as belts, pulleys, and bearings becoming faulty

REDUCED MAINTENANCE

Lightweight and compact for easier maneuverability and reduced maintenance requirements.