

# Gallus Lane Farm

AgriCool system replaces belt-drive fans, saving power and eliminating fan maintenance



## Technical data

Type	AF1250-001
ebm-papst Product	50 inch EC tunnel fan
Air flow	m <sup>3</sup> /h 49,191
Power consumption	W 1790
Number of fans	24

The fans are controlled through the AgriCool ventilation interface

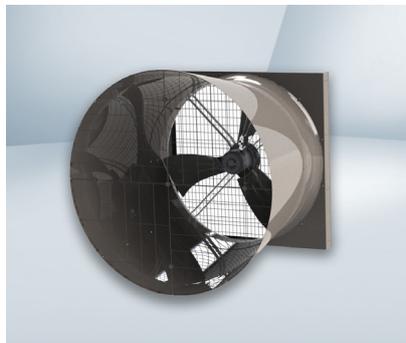
## Project



Located near Bendigo, Gallus Lane Farm is operated by grower John Scott. The 6 shed broiler farm had solar panels installed prior to 2014 to reduce the operational costs of the farm. Despite having comparatively low energy bills due to the solar panels, Gallus Lane Farm still had high operating costs due to fan maintenance, with between 50 to 60 belt changes per year.

Looking for a way to reduce the farm's operational costs John Scott turned to Steve Davies from Agricultural Automation for a solution. The AgriCool system from ebmpapst was selected because of its high energy efficiency and maintenance-free design. Complete with the AgriCool ventilation interface, the system offers improved redundancy and reliability to bring the grower peace of mind.

## Application



Supplied by Agricultural Automation, each shed had four of the original ten 50 inch Titan fans replaced with high-efficiency EC direct drive tunnel fans. The fan system is easily controlled by HMI Electric's AgriCool interface. The system works in parallel with the main shed environment controller used on the farm, supplied by Fancom.

A 240V shutter control system was installed with each of the AgriCool fans, allowing each shutter to operate individually.

The new, highly efficient and maintenance-free fans are used as the main ventilation system for each shed, providing a high level of system redundancy and reliability. The remaining 50 inch belt drive fans are only used when needed, such as high summer temperatures for additional cooling.

## Benefits



Since the installation of the efficient direct drive fans, there has been no need to replace any fan belts. The new fans have no parts which require maintenance and are highly efficient, so the old belt-drive fans are used infrequently.

The new fans ensure perfect airflow through the shed, resulting in improved bird spread.

The fan and shutter backup systems have improved the level of redundancy and safety on the farm.

Power consumption has dropped significantly since the AgriCool system was installed.

Higher levels of system redundancy and reliability have brought peace of mind to grower John Scott, while also reducing the operational costs of the farm.

The reduced power consumption and solar panels on the farm have future-proofed the owner's operation for years to come.