

Con Kyriazis

EC tunnel fans with AgriCool interface leave broiler grower, Con, smiling and stress free



Technical data

Type	AF1250-001	AF0200-001
ebm-papst Product	50 inch EC tunnel fan	200mm destratification fan
Air flow	m ³ /h 49,191	545
Power consumption	W 1790	14
Number of fans	64	7

The fans are controlled through the AgriCool ventilation interface

Project



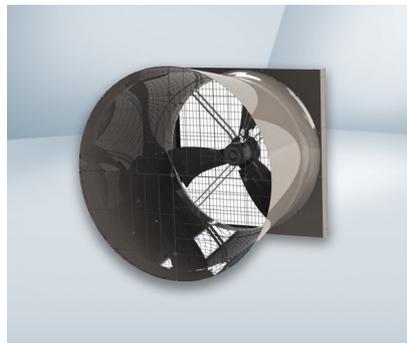
Con Kyriazis, a contract broiler grower for Baiada, is aware of the short and long-term benefits of investing in technology. Operating eight thermally efficient tunnel ventilated sheds on a farm near Little River, Victoria, Con identified that energy consumption was a large and growing cost.

Standard AC belt-driven fan systems have high energy consumption and, according to Con, his fans were requiring constant maintenance “belts, bearings and the motors themselves were all sources of breakdown and at one stage we were experiencing fan problems on a daily basis”.

“What I liked, straight away about ebm-papst was the company’s willingness to refine its product to suit local conditions”

– Con Kyriazis

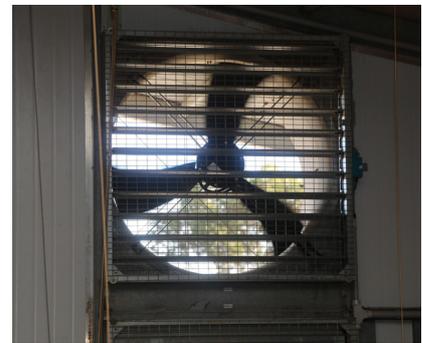
Application



From the retrofit, the number of tunnel fans on the farm dropped from 112 to 64, as each shed’s original 14x 50 inch conventional tunnel fans were replaced by eight direct drive ‘intelligent’ tunnel fans. In Con’s half brooding shed an additional seven de-stratification fans were fitted to the roof apex. These fans reduce the temperature differential in a shed by moving warm air downwards, increasing the litter temperature and promoting good bird spread.

As the EC direct drive fans turn on there is no in-rush of air or loud start-up noise to disturb the birds’ thanks to the fans ‘soft-start’ feature. Overall the air flow improved in the sheds, reducing the occurrence of hot spots and increasing bird spread.

Benefits



Instead of a large number of contactors and relays the AgriCool system is contained to a monitor, sensors, and some cables, saving Con on wiring and instalment costs while removing a potential fire hazard.

Should an issue occur with any part of the system, an alert is sent directly to Con’s mobile. A backup program steps in to supply adequate ventilation, ensuring that the livestock is well ventilated, allowing Con to work and rest assured his livestock are secure thanks to AgriCool.

With reduced electricity consumption and labour costs, Con has achieved his goal of reducing the operational cost and future-proofing his farm.