

Orchard Fans

FIXED FROST FAN



Frost Protection Systems



FIXED FROST FAN

PRODUCT ADVANTAGES

- ▷ Orchard Fans, fixed frost fan has the highest tower height (12m) in the market, exceeding our competitors by over 2m. Our tower designed allows our fan to be fully immersed in the inversion layer. This means a continuous supply of warm air is available for the protection of your crops.
- ▷ Our fans produce a high-volume low-speed wind (35km/h) which is ideal for frost protection and will not damage your plants.
- ▷ Built-in electric oscillator allows for a customisable sweeps. Fans can achieve a circular coverage between 5.5 to 7 hectares
- ▷ Our focus is on a quality of coverage and deeper penetration with a positive safety margin at 150m @ 90 percent power output.
- ▷ Our laydown tower design allows for ease of erection and annual maintenance.

TECHNICAL SPECIFICATIONS

Drive unit	Electric Motor - 37 kW , powered through a variable frequency drive for optimal speed and power delivery while eliminating high current pull during start-up.
Slew Drive	Combination Slew drive with reduction gearbox and electric motor, allows for a 360 degree sweep. Powered by a variable frequency drive allowing for a customised slew speed between 5 to 10 min per revolution
Fan	Diameter - 4.0 m Rotation speed - 750 rpm Tip speed - 157 m/s Four Blades
Tower	Hub Height - 12.0m, industry first. This offers best access to the inversion layer and allows for continuous warming of crop during operation. Modular design for ease of transport & installation. Laydown Tower design allows for ease of erection and annual maintenance Two Part Paint System (Optional Galvanising)
Base	Concrete Volume - 4.5m ³ Designed and certified in accordance with South African building codes.
Power	Source - Grid or Generator Demand - 60 kVA

OPTIONAL EXTRAS

- ▷ Automated starting and feedback system.
- ▷ Hydraulic cylinder with powerpack to assist with laydown operations.
- ▷ Fully galvanised tower

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