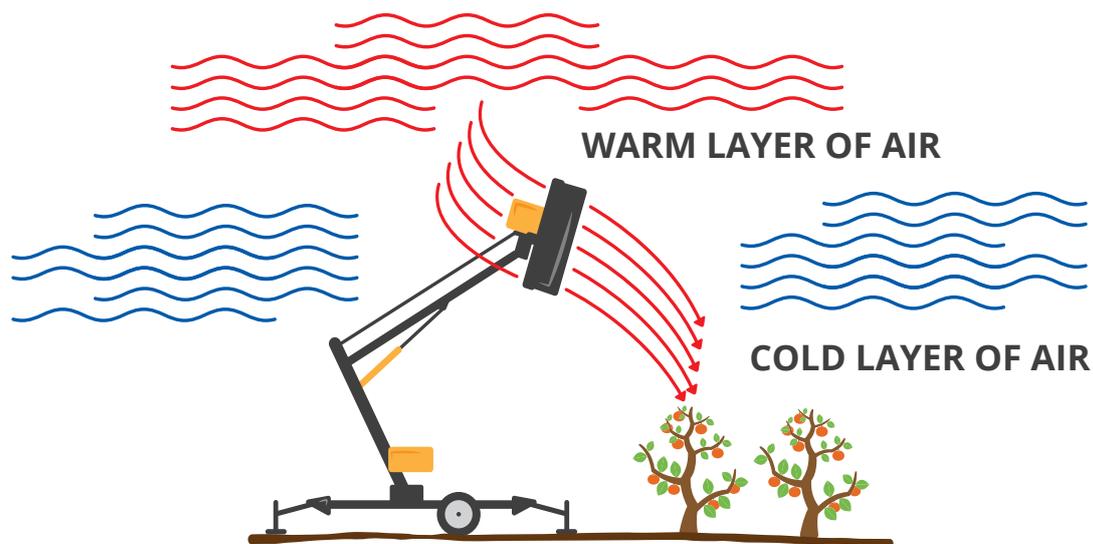




MOBILE WINDMACHINES
TOW AND BLOW 250H & 650i

EFFICIENT AND AFFORDABLE

This technique of frost protection works only with air flow turbulence. The rising heat in the soil is used and blown back into the orchard. The unique design of this fan can provide effective frost protection for all crops, even if the crops are growing in valleys or on hills. The ability to angle the impeller and horizontally oscillate the fan head for these applications allows for exceptional versatility and completely sets this machine apart from traditional fans.



This mobile windmachine offers maximum adjustment possibilities. You can select either a rotation of 360 degrees or preset the tower rotation degrees to any desired angle. Also the speed of rotation is adjustable, this ensures that you focus the protection exactly to the desired area, however your orchard is shaped.

For the placement of this mobile windmachine, neither a building permit nor a concreted foundation is requested.

This mobile windmachine enables an environmentally friendly use because it is incomparable quiet and the low fuel consumption ensures low emissions. It is easy to use and to transport by tractor or car.

„THIS MOBILE WINDMACHINE IS OUTSTANDING IN TERMS OF MANEUVERABILITY, FLEXIBILITY AND AFFORDABILITY.“

SMART CONNECT

TELEMETRY SYSTEM

This system can be added optionally. It allows you to monitor your wind machine remotely from your computer or phone with the added ability to start, stop and switch between modes.

The Smart Connect box includes the Smart Connect unit with a harness and GPS puck.



VARIOUS APPLICATIONS

FROST PROTECTION

This mobile windmachine provides efficient frost protection for all crops and cultivations. Due to the technical possibility of maximum mobility and adaptation this machine brings focus to frost protection.

DUST BINDING

With the option to add a water mist kit, the machine also serves as a perfect partner in dust binding. By adjusting the oscillation and the angle of the rotor, it is possible to bind dust in different and demanding situations.

EVAPORATIVE COOLING

The unique features of the wind machine also allow cooling by a water misting kit. This kit can be optionally attached to the rotor. There are many applications. For example the cooling of plantations during heat stress, or the cooling of crowds of people at events and festivals.

DRYING

This machines also used for drying fruit preharvest and before pruning. Also applicable to protect greenhouses from waterlogging and to dry them.

COMPONENTS



EASILY TRANSPORTED

The Tow and Blow is easy to transport. Once in position the stabiliser legs are lowered and the machine set level for operation. Max towing speed of 25km/h.



FIVE BLADE IMPELLER FAN

Unique five bladed fan manufactured from glass reinforced polyamide. Performance tested to recognised world standards.



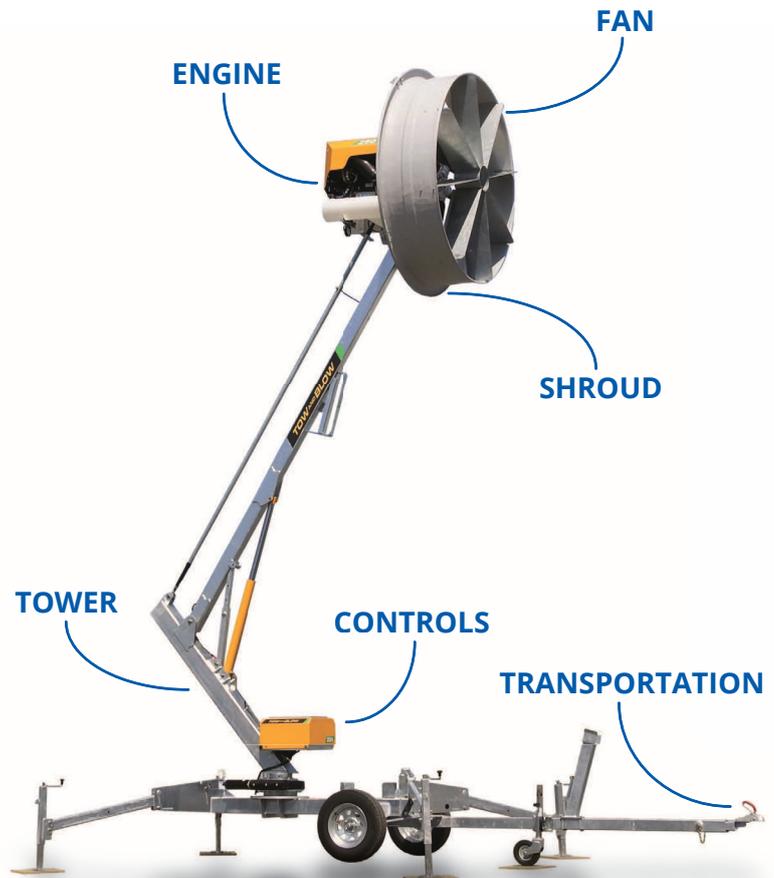
AERODYNAMIC DESIGN

Aerodynamically designed shroud maximises the air flow capacity. This effectively turbo charges the thrust of the air like a jet engine.



DIRECT POWER TO FAN

The diesel engine delivers direct power to the fan eliminating lost power through angle drive gearboxes and long shafts.



USER FRIENDLY CONTROLS

Equipped with an automatic start-stop function as standard. Off/on temperatures can be freely selected and adjusted at any time. When the temperature limit is detected, it switches on automatically and after a short warm-up phase increases the speed.



HYDRAULIC LIFT

The tower has three height positions to enable operation at lower heights if required. Suitable for valleys and hills.

MODELL 250H



MODELL 650i



TECHNICAL SPECIFICATIONS

IMPELLER

Five blade impeller made of glass reinforced polyamide. Performance tested to recognised approved world industry standards. The unique design of the airfoil saves power while reducing noise and providing a highly efficient air flow. Unobstructed air flow away from the tower means there is no hindrance to the air momentum or direction. Fan head is easily angled for protecting crops growing on hills or in valleys. Fan head can be preset to automatically oscillate horizontally.

SHROUD

Aerodynamically designed to maximise airflow. Having a shroud around the fan is like turbo charging the capacity of air flow.

GEARBOX

The power transmission from motor to rotor by planetary gear and centrifugal clutch.

STRAIGHTENING VANES

Air exits a fan in a spiral motion which causes the airstream to lose energy. The straightening vanes on the Tow and Blow take this spiral motion and maximise the energy in the airstream.

ENGINE

Reliable Kohler diesel engine. Fuel tanks are connected to a level gauge which displays the fuel level on the control screen.

CONTROL UNIT

The controller has five different languages (English, German, French, Spanish, Italian). The rotation speed of the boom is infinitely variable and you can choose between full circle and partial circle mode. A 12 Volt solar panel guarantees a long stand-by time during operation of the machine. The control unit is located in a lockable housing.



250H

650i

OPERATING SPECIFICATIONS

PROTECTED AREA	up to 4.5 hectare	up to 6 hectare
MACHINE MASS	1,400kg	1,900kg
MAXIMUM SIDE SLOPE SETUP ANGLE	6°	6°
MAXIMUM FORE-AFT SLOPE SETUP ANGLE	6°	6°
WHEELBASE	1690 mm (Width)	1690 mm (Width)
ELECTRIC SYSTEM VOLTAGE	12 V	12 V
MAXIMUM WIND CONDITIONS	(35 kmph) (22 mph) Shutdown	(35 kmph) (22 mph) Shutdown
LEVELLING JACK PONT LOADING PRESSURE	161 kpa (without soft ground pads)	218 kpa (without soft ground pads)

DIMENSIONAL DATA

MACHINE HEIGHT (FAN IN OPERATING POSITION)	7800 mm	7800 mm
MACHINE HEIGHT (FAN IN TRANSPORT POSITION)	2775 mm	2745 mm
MACHINE WIDTH (STABILISER LEGS RETRACTED)	2315 mm	2315 mm
MACHINE LENGTH	6090 mm	6160 mm

CAPACITIES

HYDRAULIC TANK	5 L	5 L
FUEL TANK	60 L (2 x 30 L)	200 L

TYRES

TYRES	185R14LT Pneumatic	185R14LT Pneumatic
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ENGINE

FUEL	Diesel	Diesel
FUEL USAGE	5L / Hour	20L / Hour
ENGINE DESCRIPTION	3 Cylinder, 4 stroke indirect injection, overhead cam with integrated fuel injection system	4 Cylinder; Turbo charged.
FAN ENGINE POWER (MAXIMUM)	23.7 HP	67 HP
EMISSIONS COMPLIANCE	Tier 4 Final / ARB	Tier 5
COOLING SYSTEM	Water cooled	Water cooled
IGNITION SYSTEM	12 V Electric Starter with 45 Amp External Alternator	12 V Electric Starter with 45 Amp External Alternator
MAXIMUM ANGLE OF FAN HEAD AND ENGINE	8°	8°

AIRSPPEED

AIRSPPEED AT FULL OPERATING POWER	23 m/s (82 kmph) (50 mph)	36 m/s (130 kmph) (80 mph)
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ADVANTAGES

- + The possibility to work in the same direction as the wind drift to increase the protected area.
- + Servicing is simple. The boom is lowered to ground level to service the engine and impeller.
- + Quiet with a noise level of only 45 decibels (250h) and 55 decibels (650i) at 300m.
- + The machines can be set up by one person in less than 15 minutes.
- + Portability – easy transport by tractor or vehicle.
- + The engine delivers direct power to the fan eliminating lost power through angle drive gearboxes and long shafts.
- + No building measures or building permit necessary.
- + Low fuel consumption and operating costs.
- + Due to the mobility maximum adaption to needs
- + Thanks to the automatic start/stop function, the machine works completely independently.



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*Der Regenmacher vom
Kaiserstuhl seit 1975*