

**TBX**



**Tow & Blow  
Frost Fan**



# QUIETLY STANDING GUARD OVER YOUR CROPS



## AFFORDABLE AND EFFICIENT

The TBX Tow and Blow is an affordable and highly efficient frost fan. This machine has a unique fan design delivering effective frost protection for vineyards, apples, blueberries, cherries, citrus, avocados and more - even when grown in valleys or on hillsides.

## FLEXIBLE FROST PROTECTION

The Tow and Blow Fan can easily be set to oscillate at any angle allowing for exceptional versatility - completely standing the Tow and Blow apart from traditional frost fans.

Preset the tower to rotate through any angle of your choice up to a full 360°. The speed of rotation is adjustable to ensure that you target your frost protection where needed, whatever the shape and contour of your crops.

## QUIET AND CLEAN

No fluctuating sound caused by the fan impeller. The Tow and Blow achieves quiet noise levels of below 53 decibels at 300m. Add low fuel consumption and low exhaust emissions and you can see why the TBX Tow and Blow is the cleanest frost fan on the market.

## QUICK AND EASY

Tow and Blows Frost Fan portability is second to none, easily transported behind a tractor or vehicle to your desired location. A wind machine that brings efficiency, affordability and mobility to frost protection. No concrete foundations, no building permits or consents (some councils may stipulate consent).

The Sentry800 model is a fixed fan. Unlike the portable 250h & 650h models it will require a concrete foundation.

# A revolutionary frost fighting product





## TBX TOWANDBLOW HIGHLIGHTS

Powerful turbo-charged air flow, unobstructed from fan to crop.

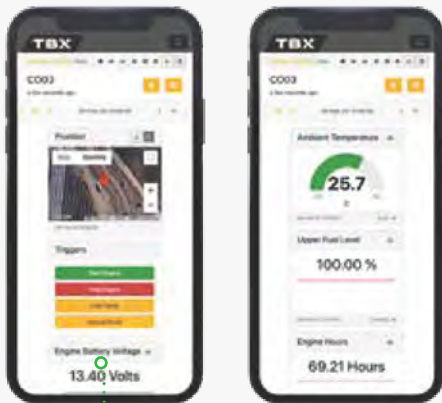
Aerodynamically designed fan shroud optimises blade performance.

Static exit vanes, delivering straightened airflow, enhancing performance.

Fan directly driven – requires less engine HP lowering fuel consumption and emissions.

Retractable boom – low maintenance cost, easy access, only erect when needed, improved visual landscape.

Intuitive easy touch Digital Controls.



Optional Extra: For total peace of mind, monitor your frost protection live via your computer or smartphone with TBX Smart Connect.



Portable and easily transported to your desired location for versatile multi-crop use.

Adjustable rotation speed and oscillation angle which enables customised crop protection area.

# 250h & 650h Models

## TBX SENTRY HIGHLIGHTS

Aerodynamically designed fan shroud optimises blade performance.

Fan directly driven – requires less engine HP lowering fuel consumption and emissions.

Retractable boom – low maintenance cost, easy access, only erect when needed, improved visual landscape.

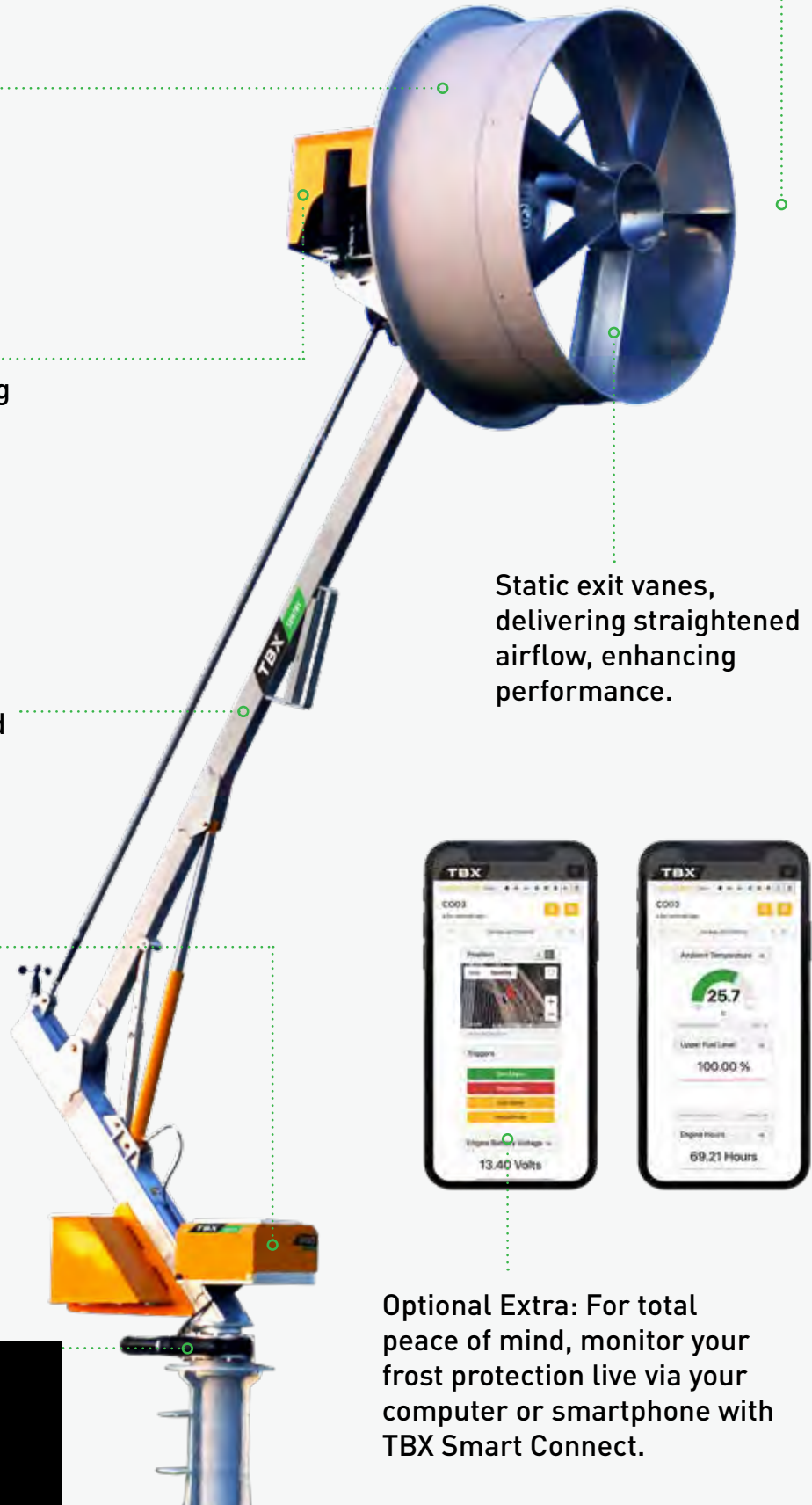
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Adjustable rotation speed and oscillation angle enables customised crop protection area.

Powerful turbo-charged air flow, unobstructed from fan to crop.

Static exit vanes, delivering straightened airflow, enhancing performance.

Optional Extra: For total peace of mind, monitor your frost protection live via your computer or smartphone with TBX Smart Connect.



# 800 Sentry Model

# LEADING THE WAY IN FROST PROTECTION



## AERODYNAMIC DESIGN

Aerodynamically designed shroud maximises the air flow capacity. This shroud design optimises blade performance, producing a turbo charge affect thrusting the air like a jet engine.

## FIVE BLADE IMPELLER FAN

Unique five bladed fan manufactured from glass reinforced polyamide. Performance tested to recognised approved world industry standards. The unique air foil design saves power, while reducing noise, and efficiently providing a high volume of turbo charged air. Airflow directed away from the tower allows the airflow from the fan to be unobstructed. This means there is no hindrance to the air momentum or direction.

## STRAIGHTENING VANES

Conventional non-shrouded frost fans push air in a spiral motion which causes the airstream to lose energy. The TBX's static exit vanes deliver direct airflow, enhancing performance. Straightening vanes reduce spiral motion of the exiting airstream to maintain thrust and maximise frost protection directly to your crop.

## DIRECT POWER TO FAN

Reliable and efficient Diesel engine with low emissions and fuel consumption. Engine delivers power direct to the fan shaft eliminating lost power through angle drive gearboxes and long drive shafts which is present on all other frost fans.

## HYDRAULIC RETRACTABLE BOOM

Being able to lower the boom to the ground provides easy access for servicing. Only erect the fan when needed, improving your visual landscape. The tower has three height positions to enable operation at lower heights if required to suit different crops and overhead canopies. The hydraulic functions are driven by a DC hydraulic power pack.

## ADJUSTABLE ROTATION & OSCILLATION

The tower can oscillate through any angle, or continually rotate a full 360 degrees to customise your crop protection. The oscillation angle is very easily adjusted.

## AUTOSTART AND SHUTDOWN

Auto start functionality enables temperature triggered power start up and shut down. Both the fan and tower oscillation start operating automatically once the pre-set low temperature is detected. Shut down is automatic once the upper temperature setting is reached.

## SOLAR BACKUP CHARGING

A solar panel provides backup charging to the battery when the fan is live on standby during a frost season.

## INTUITIVE DIGITAL CONTROLS

User friendly digital control panel displays all machine settings. Home screen displays live data, such as; startup, shutdown temperatures, current temperature, digital fuel gauge, hour clock, battery voltage, rotation settings, RPM, and lots more. This has been carefully designed for ease of use.

## RELIABLE ENGINE AND DRIVETRAIN

Reliable diesel engine driving a robust planetary gearbox provides low fuel consumption and low emissions.

## EASY SAFE SERVICING

Servicing and maintenance on the fan is safe and simple by lowering the fan head to ground level. No elevating work platforms needed nor certified working at height operators required. Servicing is simple with low maintenance costs.

## UNOBSTRUCTED AIRFLOW

Unobstructed air flow away from the tower means there is no hindrance to the air momentum or direction.

## ADJUSTABLE FAN HEAD

Adjustable fan head, to maximise protection. Fan head is easily angled for protecting crops growing on hills or in valleys.



# 250h

TOW AND BLOW

## DIMENSIONS AND SPECIFICATIONS

### COVERAGE AND AIRSPEED

Airspeed at full operating power	23 M/s (82 kmph) (50 mph)
Based on property, terrain and crop type	Up to 3ha

### ENGINE - KOHLER

Fuel	Diesel
Fuel consumption	5 Litres per hour (average)
Engine description	3 Cylinder
Fan engine power (maximum)	17.6 kw (23.7 HP) @ 3,600 rpm
Emissions compliance	Tier 4 Final / ARB
Cooling system	Water cooled engine
Ignition system	12 V electric starter with 45 amp alt.

### CAPACITIES

Hydraulic tank	5 L
Fuel tank	60 L

### DRIVE TRAIN

Heavy duty planetary drive train	Engine power direct to fan shaft
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### DIMENSIONAL DATA

Machine height (fan in operating position)	7800 mm
Machine height (fan in transport position)	2775 mm
Machine width (stabiliser legs retracted)	2315 mm
Machine length	6090 mm



# 650h

TOW AND BLOW



## DIMENSIONS AND SPECIFICATIONS

### COVERAGE AND AIRSPEED

Airspeed at full operating power	36 M/s (130 kmph) (80 mph)
Based on property, terrain and crop type	Up to 7ha

### ENGINE - KUBOTA

Fuel	Diesel
Fuel consumption	13 Litres per hour (average)
Engine description	4 Cylinder
Fan engine power (maximum)	49 Kw (66 hp) @ 2,500 rpm
Emissions compliance	Tier 3
Cooling system	Liquid cooled engine
Ignition system	12 V electric starter with 45 amp alt.

### CAPACITIES

Hydraulic tank	5 L
Fuel tank	200 L

### DRIVE TRAIN

Heavy duty planetary drive train	Engine power direct to fan shaft
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### DIMENSIONAL DATA

Machine height (fan in operating position)	7800 mm
Machine height (fan in transport position)	2800 mm
Machine width (stabiliser legs retracted)	2315 mm
Machine length	6300 mm



# 800

SENTRY



## DIMENSIONS AND SPECIFICATIONS

### COVERAGE AND AIRSPEED

Airspeed at full operating power	36 M/s (130 kmph) (80 mph)
Based on property, terrain and crop type	Up to 7ha

### ENGINE - KUBOTA

Fuel	Diesel
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### CAPACITIES

Hydraulic tank	5 L
Fuel tank	200 L

### DRIVE TRAIN

Heavy duty planetary drive train	Engine power direct to fan shaft
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### DIMENSIONAL DATA

Machine height (fan in operating position)	8100 mm
Machine height (fan in stowed position)	3010 mm
Machine width	Stowed 2200 mm / extended 810 mm
Machine length	5540 mm

# The ultimate frost protection



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