



Stationary Wind Machine

Model 2430

Frost Protection / Noise Reduction

Orchard-Rite



Where frost protection and protecting the environment go hand-in-hand.

Since 1967, we have crafted our wind machines with precision technology. When environmental noise issues became a growing concern, we went to work.

The model 2430, 3-blade wind machine was designed specifically to provide the highest degree of noise reduction found in the industry and ensure maximum frost protection. We designed a machine that only produces 49dB at 300m and more airflow than any other multi-blade* wind machine on the market. In addition, using our 3-blade wind machine in lieu of water to protect crops, saves precious water resources where drought is common and water protection is not cost effective.

At Orchard-Rite, we are dedicated to serving you, your crops and the environment by providing the tools and knowledge to stave off those frosty nights... quietly.

**Multi-blade refers to wind machines with three or more blades.*

Gearboxes and FLEXOR® Steel Input Shaft

Built with durable ductile iron and designed with a FLEXOR® steel input shaft, which is considered to be superior to common alloy steel, our gearboxes come with multiple options to best suit the topography of any location.

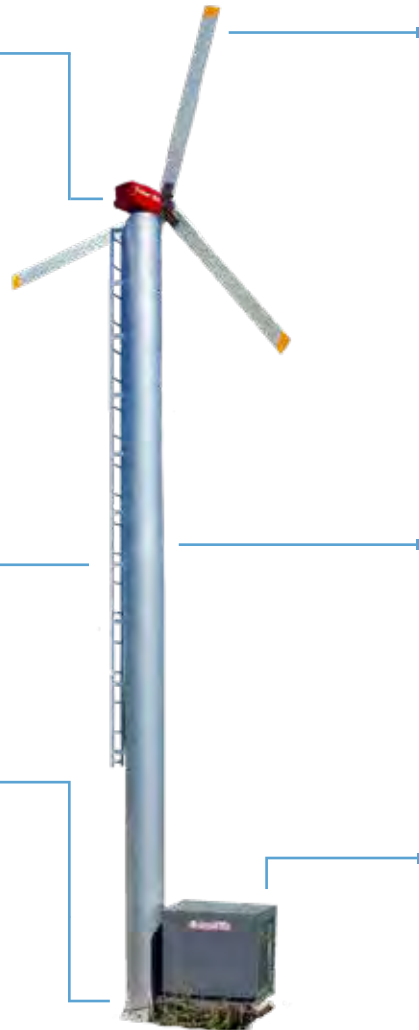
The gear lube bath provides continuous lubrication of the gears helping to prevent wear and corrosion.

Drivelines

Three drivelines deliver maximum torque and rotation transfer. Drivelines are 10' x 4" (3.048m) with pillow block carrier bearings to allow unhindered movement

Base

Maximum stability is achieved with a 7yd³ (5.35m³) concrete base. High strength, high performance anchor bolts with 3x the corrosion resistance of galvanized. Meets International Building



Solid Fiberglass Blades

Designed with the latest technology and precision-built for frost control.

3-blade wind machines are designed for maximum protection and are **up to 10 dB quieter than our 2-blade machines.**

Strongly reinforced at stress points for added safety and reliability. No wind exclusion in the warranty.

Tower

The heaviest tower in the industry with a 5/16" (7.94mm) walled tube. A two-part paint system maximizes corrosion resistance. Hot-dipped galvanizing available for environments prone to corrosion.

Engine

Certified to meet EPA emission standards. Powder coating provides resistance to scratches, chipping, and the elements.

**Pursuant to the terms and conditions of the Orchard-Rite extended warranty agreement.*



Special features...

Orchard-Rite wind machines can be equipped with ORCell™ (cellular) monitoring technology.

This allows you to remotely, start and stop your wind machines, change other Auto-Start settings, along with monitoring from anywhere in the world. React quickly without having to physically be in the field.

Auto-Start™

Save fuel.
Save labor.



Designed in-house, Auto-Start™ technology provides automated protection against frost. Created with settable start and stop temperatures, you control the temperature at which the machine turns on and shuts down. Our Auto-Start™ accessory is accurate to +/- 0.5°F (0.3°C), providing you the peace of mind that your crops will continue to thrive. This accessory is an option for all new Orchard-Rite wind machines and can be retrofitted to most other makes and models.

Our custom designed Auto-Start™ allows you to set the following:

- Start Temperature
- Stop Temperature
- Warm Up Duration
- Engine RPM
- Cool Down Duration
- Wind Speed Shutdown

+ Optional Accessories

Just a few of our custom accessories...
Our dealers can help you determine which accessories fit your needs for the best

Laydown Tower



- Laydown height: 7' 10" (2.38m)
- Excellent option for maintaining scenic beauty
- Works well with pivot irrigation
- Improves safety for helicopters and airplanes

Dogleg Tower



- Enhanced coverage of steep slopes
- Ideal for slopes greater than 6 degrees
- Combined with the Tilt Head, can cover slopes up to 10 degrees

Driveline Holder



- Allows engine & gearbox to be removed & stored to prevent theft and pest damage
- An excellent option for theft prevention

Oscillator



- Allows for a custom sweep area up to 180 degrees
- Ideal for narrow fields & canyons
- Prevents wasted coverage of unimportant areas

316 Stainless Steel Hood



- Superior corrosion protection

Centrifugal Clutch



- Improves longevity of the gearboxes and driveline
- Beneficial for long periods when machine is not in use

Vortex™ Anemometer



- Monitors wind speeds & will shut down machines when speeds are too high or winter heating conditions occur
- Noise reduction
- Lowers risk of costly repairs

Solar Panel



- Keeps the engine battery properly charged
- Ensures the battery is ready to go after long periods of disuse
- Lowers risk of downtime during frost emergencies

Contour & Tilt Heads



- Improves wind machine coverage on slopes, knolls, ridges or plateaus
- Can be custom designed to fit the needs of an area
- Allows one machine to cover areas that could normally require two standard machines

Flood Riser



- Allows for wind machine operation in flood plains
- Reduces risk of flood damage and pest damage as well
- Raises engine 6 feet up (1.8288m)

CAT® 4.4

Perfect balance of durability,
fuel efficiency, and performance

TIER III Turbo-Charged Diesel

3 Year/1500 Hour Warranty (Engine Only)

Oil Pressure, Water Temperature
& Over-Rev Protection

Shear Pin Coupler
• Protects Drivetrain Components

Muffler System for Quiet Operation
of Engine

Powder Coated Hood & Frame
• Increased Protection from
Outdoor Elements

Electronic Controls

Integrated Pest Guard

Fuel Efficient: 5.9 GPH (19.71 LPH)



Specifications	2430 Model
Tower - Height to Fan-Shaft	10.7m
Tower - Two Part Paint System	✓
Base - Concrete Volume	5.35m³
Base - Meets International Building Code	✓
Shear Pin Coupler	✓
Blade - Length/Diameter	6m
Blade - Solid Composite Fiberglass	✓
Blade - Extended Warranty Available*	✓
Blade - No Wind Exclusion	✓
Blade - Pitch	11 degrees
Blade - Quantity	3
Gearboxes - Ductile Iron	448MPA
Gearboxes - Extended Warranty Available*	✓
Gearboxes - FLEXOR [®] Steel Input Shaft	✓
Gearboxes - Lubrication - Oil Bath	✓
DBA	49



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Exceptional Service & Commitment to You

For over 50 years we have been providing growers with the best experiences. We ensure this by partnering with factory-trained, authorized dealers and service providers.

Our team is dedicated to serving you by listening to your needs, helping you find the right equipment, partnering you with superior service providers, and establishing a lifelong commitment to your business. We invite you to discover the Orchard-Rite Pledge - uncompromising quality and unparalleled service before,



Orchard-Rite

Pure Power. Pure Performance. Pure Orchard-Rite.

Our Service Providers

Responsive and dependable, our service providers deliver exceptional knowledge and service and are located worldwide. They help you pick the right product at the right price and provide full-service at a moment's notice. Building lasting relationships is our business. You can depend on Orchard-Rite service providers!



New & Used



Parts & Service



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