

Freen OÜ Announces Launch of the 15 kW Freen-H15 Wind Turbine

Freen OÜ, the EU's leading producer of small wind turbines, introduces its latest innovation, the Freen-H15, a small wind turbine with rated power of 15 kW.

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/EINPresswire.com/ -- Freen OÜ, the EU's leading producer of small wind turbines, introduces its latest innovation, the Freen-H15—a 15-kilowatt wind turbine tailored for small and medium-sized energy consumers. With a yearly production capability of up to 500 units, the Freen-H15 is now available for order through the website: www.freen.com.

Engineered for optimal efficiency, the Freen-H15 provides a rated power of 15 kW at wind speeds of 11 m/s. The turbine's advanced blade design and durable nacelle construction enable it to deliver outstanding energy generation compared to comparable turbines in its category. It is offered with a choice of either an 18-meter or 22-meter monopole tower, ensuring adaptability across various installation settings. Certified for IEC Class II wind conditions, the turbine reliably operates in temperatures from -25°C to +60°C and has a projected operational lifespan of 20 years.

"The European market demands robust and trustworthy [small wind turbines from credible local](#)

Freen-H15
Horizontal Small Wind Turbine

- High Return on Investment**
Competitive pricing combined with excellent annual energy production (AEP) ensures a cost-effective solution.
- Quiet & Efficient**
Operates at a low rotation speed, minimizing noise and ensuring a smooth energy supply.
- Low Maintenance & Easy Servicing**
Requires only a simple service check every two years, reducing operational costs.
- Advanced Safety Features**
Equipped with a fail-safe tip brake and a spring-applied electromagnetic rotor brake for reliable operation.

The Freen-H15 is built for durability and efficiency, making it an excellent choice for those looking to invest in sustainable, long-term wind energy.

The Freen-H15 is a 15 kW Class II horizontal-axis small wind turbine.
Designed for households, farms, and small businesses seeking a reliable renewable energy solution, it efficiently harnesses wind power to deliver strong energy yields.

freen – your wind, your power, your way

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Freen-H15 horizontal axis small wind turbine

FREEN-H15 15 kW Wind Turbine

Technical specifications		Annual Energy Production		Drawing and Description	
Rated power, (kW)	15	Wind speed (m/s)	AEP (kWh)	<p>The main parts of the wind turbine are foundation, tower and nacelle with rotor and tail, electric panels and cables necessary for energy transfer and turbine control.</p> <p>Wind turbine has free yaw with tail. The turbine rotation speed is constant.</p> <p>For safe operation blade tip-brakes will activate with rotor over speed and mechanical rotor brake is used to stop the rotor. All these methods allow for safe operation and control of the turbine.</p> <p>Simple maintenance of greasing the bearings and visual inspection yearly. Simple gearbox oil change every two years.</p>	
Cut-out wind speed, (m/s)	no cut-out	3.5	13100		
Rated rotation speed (rpm)	71	4	18100		
Wind class	IEC II	4.5	23300		
Swept area, (m ²)	95	5	28600		
Blades	3, fixed angle, upwind	5.5	33900		
Rotor diameter, (m)	11	6	39000		
Tower	Monopole, 18-22 m	6.5	43900		
Generator	Asynchronous, planetary gearbox	7	48600		
Brakes	Stall, electro mechanic failsafe rotor brake, tip-brakes	7.5	53000		
Grid connection	Direct with reactive power compensation	8	5700		
Standard	IEC 61400-2:2013 – Small wind turbines	8.5	60900		
Operating temperatures, (°C)	-25 to +60	9	64400		
Remote monitoring	4G or Ethernet (Scada)	9.5	67700		
Lifetime, (years)	20	10	70600		

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1 AEP is based on a Rayleigh wind speed distribution, K=2, t=15°C, P=1013 mbar, ρ=1.225 kg/m³

2 The product specifications are provisional and subject to change at any time due to improvements or other reasons.

Freen-H15 horizontal axis small wind turbine

[manufacturers](#)," said Andrey Khimenkov, CEO of Freen OÜ. "With the Freen-H15, we meet this requirement, delivering superior performance in moderate wind conditions alongside easy installation, minimal maintenance requirements, and long-term dependability. It's an ideal renewable energy solution for businesses and communities."

Key Features of the Freen-H15:

- Rated Power: 15 kW at 11 m/s, with peak performance reaching 17 kW

- Safety & Reliability: Passive yaw system with tail for upwind orientation, low-speed rotation (71 rpm), and advanced braking mechanisms (stall control, electro-mechanical fail-safe rotor brake, and tip-brakes)

- Smart Orientation: Optimized wind capture through integrated rotor blades and tail

- Environment: Reduced noise output (<45 dB at 60 m distance) and wildlife-conscious design

This turbine represents a practical, cost-effective, and scalable renewable energy solution with minimal maintenance demands. Spare parts are readily accessible through Freen OÜ's dedicated warehouse in Estonia. Freen OÜ adheres to rigorous quality control standards, certified under ISO 9001, ISO 3834-2, and CE EN 1090-2. [Orders for the Freen-H15 turbine](#) can be fulfilled within 12 weeks. [For more information, visit \[www.freen.com\]\(http://www.freen.com\).](#)

About Freen OÜ

Freen OÜ, headquartered in Estonia, specializes in manufacturing small wind turbines, dedicated to providing affordable, reliable wind energy solutions worldwide. With production based entirely in the EU and strict adherence to international quality standards, Freen leverages engineering excellence and patented technologies to offer versatile wind energy products tailored to diverse applications.

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