

Evancess R9000

Advanced Small Wind Turbine

Renewable energy is key to North America's low-carbon energy future, as well as diversifying energy sources.

Today wind power continues to gain ground as a profitable and effective energy source.

Evancess Wind is at the heart of this energy revolution, supporting homeowners, farmers, businesses and organizations around the world, to become independent green energy producers and reduce their bills and CO₂ emissions.

The Evancess R9000 already has several European accreditations, including the UK MCS certification, and is SWCC application pending.



The Evancess R9000 small wind turbine is the result of years of dedicated research and development, based on engineering experience of designing big wind turbines.

Specifically designed to capture more energy at lower wind speeds makes the R9000 one of the most efficient 5kW turbines available.

The R9000 includes state-of-the-art technologies, such as the patented blade pitch system and a highly efficient generator, which converts up to 96% of the energy captured into electricity in on and off grid applications.

The R9000 belongs to the 'next generation' of small wind turbines, offering class leading quality, performance and reliability.

- Delivers maximum energy yield.
- Generates power at low wind speeds & continues running at high wind speeds.
- Outstanding durability - minimal maintenance.
- Reliability backed by millions of operating hours in the field.
- Low noise and visual impact.
- Conforms to IEC 61400-2 international standard.

The efficient and reliable Evancess R9000 is already enabling homes, farms and businesses across North America to reduce energy bills and carbon footprint.



Specification

Architecture	Upwind, 3 bladed rotor, self regulating
Rated Power	5kW @ 26.9mph (12m/s), continuous to 134mph (60m/s)
BWEA Reference Power	4628W (power output at 24.6mph (11m/s))
Annual Energy Yield	8780kWh with Annual Mean Wind Speed (AMWS) of 11.2mph (5m/s) (to IEC & BWEA Standards)
Cut-In Wind Speed	6.7mph (3m/s)
Cut-Out Wind Speed	None. Continuous generation to survival wind speed
Survival Wind Speed	134mph (60m/s)
IEC Turbine Class	Conforms to IEC 61400 to Class II - AMWS up to 19mph (8.5m/s)
Control System	Patented Reactive Pitch™ control
Rotor Diameter	18' (5.5m)
Rotor Speed	200rpm nominal
Blade Type	Fully optimised aerofoil ensuring maximum yield & minimum noise
Blade Material	Glass fibre reinforced composite, low reflection, UV & anti-erosion coatings
Generator	Patented brushless direct drive, air-cored high efficiency Permanent Magnet Alternator
Gearbox	None required (see generator)
Emergency Braking	Patented automatic ElectroBrake™ (with manual control for servicing). No moving parts.
Yaw Control	Passive tail vane and rotor
Tower Height	40', 50', 60' (12m, 15m & 18m)
Tower Types	Free-standing (monopole), hydraulic RAM & Gin pole tilt
Tower Foundation	Root & pad options
Tower Top Mass	715lbs (325kg) complete (excl tower)
Design Longevity	20 years minimum. Regular service inspections.
Noise	Lp, 25m = 53dB(A). BWEA Reference Sound Level at 17.9mph (8m/s) & 82' (25m) distance Lp, 60m = 45.5dB(A). BWEA Reference Sound Level at 17.9mph (8m/s) & 197' (60m) distance
Operating Temperature Range	-20°C - +50°C
Warranty	5 years (see Evance Terms & Conditions for details)

Evance Wind Turbines Ltd

www.evancewind.com



Certificate Number MCS WT0039
Small Wind Turbine

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