Evance R9000

Advanced Small Wind Turbine

Renewable energy is key to our low-carbon energy future, as well as diversifying our energy sources.

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

Evance is at the heart of this energy revolution, supporting homeowners, businesses and organisations, around the world to become independent green energy producers and reduce their bills.

Evance is an accredited MCS installer, and factory process control and products are MCS compliant.

The Evance R9000 is eligible for Feed-in Tariffs.

Generating power to support farm (1)

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

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

The R9000 has a patented high-efficiency generator which converts up to 96% of the energy captured into electricity in on and off grid applications.

Combining our patented state-of-the-art technology and elegant design, the R9000 belongs to the 'next generation' of small wind turbines, offering class leading quality, performance and reliability.

- Performance - designed for class leading energy yield.
- Efficiency - generates power from low wind speeds & blade design captures maximum energy.
- Reliability - existing installations average over 99% up time.
- Quiet operation - advanced blade design & direct drive/no gearbox.
- Durability - conforms to IEC 61400-2 international standard.
- Safety - two automatic & independent over speed protection systems.

The Evance R9000, the industry's most reliable and efficient turbine, is helping to generate clean energy for schools, farms, rural homes & light commercial sites.

R9000 powers property in Denmark (2)

Generating power for property in France (3)

R9000 on Isle of Lewis (4)

Specification

Architecture	Upwind, 3 bladed rotor, self regulating
Rated Power	5kW @12m/s (26.8mph), continuous to 60m/s (134mph)
BWEA Reference Power	4628W (power output at 11m/s (24.6 mph))
Annual Energy Yield	8780kWh with Annual Mean Wind Speed (AMWS) of 5m/s (11mph) (to IEC & BWEA Standards)
Cut-In Wind Speed	3m/s (6.7mph)
Cut-Out Wind Speed	None. Continuous generation to survival wind speed
Survival Wind Speed	60m/s (134mph)
IEC Turbine Class	Conforms to IEC 61400 to Class II – AMWS up to 8.5m/s (19mph)
Control System	Patented Reactive Pitch™ control
Rotor Diameter	5.5m (17.7')
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	10m, 12m, 15m & 18m (33', 40', 50', 60' & US only 80')
Tower Types	Free-standing (monopole), hydraulic RAM & Gin pole tilt
Tower Foundation	Root & pad options
Tower Top Mass	325kg (715lbs) complete (excl tower)
Design Longevity	20 years minimum. Annual service inspection
Noise	Lp, 25m = 53dB(A). BWEA Reference Sound Level at 8m/s & 25m distance Lp,60m = 45.5dB(A). BWEA Reference Sound Level at 8m/s & 60m distance
Operating Temperature Range	-20˚C - +50˚C
Warranty	5 years (see Evance Terms & Conditions for details)

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APPROVED PRODUCT
MCS
BRE GLOBAL LISTED

Certificate Number MCS WT0039
Small Wind Turbine

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