



Wind Turbine for Urban Environment

20 September 2006

The quietrevolution QR5, a helical wind turbine made for the urban environment, will soon be available in the United States. The twisted blades are designed to eliminate noise and vibration while capturing turbulent, shifting winds. The QR5 has only one moving part, making it easier to maintain. At five meters high and three meters in diameter, the turbine will integrate with many types of structures. The product will be displayed at the Wired NextFest in New York from September 27th to October 1st.



Product Summary From Manufacturer

Physical dimensions:

5m high x 3.1m in diameter

Generator:

Direct drive, mechanically integrated, weather sealed 6kW permanent magnet generator

Power control:

Peak power tracking constantly optimizes turbine output for all sites and windspeeds

Operation mode:

Max wind speed: 16m/s; Min wind speed: 4m/s

Design life:

25 years (annual inspections recommended)

Rotor construction:

Carbon fiber and epoxy resin blades and connection arms

Brake and shutdown:

Overspeed braking above 14m/s wind speed, auto shutdown in high wind speeds (above 16m/s)

Roof mounting:

Minimum recommended height above buildings: 3m

Tower mounting:

Minimum mast height: 9m to bottom of blades. Demountable models are also available for temporary installations

Remote monitoring:

Event log can be accessed via PC. Remote monitoring stores operation and kW hours of electricity generated

Warranty:

Two years on components

Cost of turbine:

\$47,000

Installation cost:

Around \$10,000 depending on the site

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|--|--|
| <p>Author:
Rob Howe</p> <p>Date Posted:
22 September 2006</p> | <p>Fantastic! In fact, I am looking for an alternative energy company to work for and this looks great!</p> <p>Thanks for publishing this information as it helps us all know that the Climate Change movement is underway for real!</p> <p>Comment 1 of 7</p> |
| <p>Author:
Richard Llewellyn</p> <p>Date Posted:
22 September 2006</p> | <p>Is there a smaller one 1kw for a residence to use?That initial cost is a little hard to stomach, for a residence.</p> <p>Comment 2 of 7</p> |
| <p>Author:
Philip Livingston</p> <p>Date Posted:
22 September 2006</p> | <p>This VAWT is beautiful. It would integrate very well with cell phone towers, freeway lighting poles, and buildings... Great to see new ideas come to market.</p> <p>Comment 3 of 7</p> |
| <p>Author:
Joseph Tam</p> <p>Date Posted:
25 September 2006</p> | <p>very nice item, i love it. but the price.....</p> <p>Comment 4 of 7</p> |

Author: [Moorthy Muthukrishnan](#)
Date Posted: 27 September 2006

That is wonderful. At such as a high price, can this compete with PV modules?

Comment 5 of 7

Author: [Christopher Trimble](#)
Date Posted: 28 September 2006

Great design, like others, is there a smaller scale version available. What are the vains/blades made of?

Comment 6 of 7

Author: [Steven Peace](#)
Date Posted: 29 September 2006

Without doubt the QR5 vertical axis wind turbine machine would work better in the turbulent wind found in the built environment as would other vertical axis machines, all of which are omni directional. It may look pretty too, but it also looks fragile and at GBP25,000 (\$47,000) plus installation for a 6 kW rated machine, it just doesn't stack up against the more substantial looking 3 kW Wind Twister machine due to be launched by Eurowind Small Turbines next year at a cost of around GBP4,500 (\$8,500) plus installation.

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