

## Remote Hybrid System Turbine Specifications and features



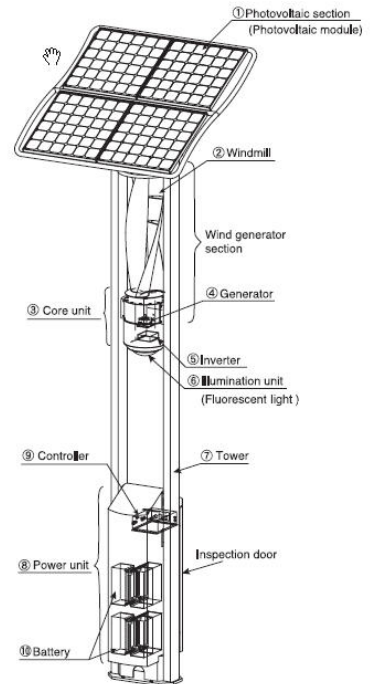
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The RHS uses a vertical (Savonius Type) wind turbine.

The salient features of the Savonius turbine are :

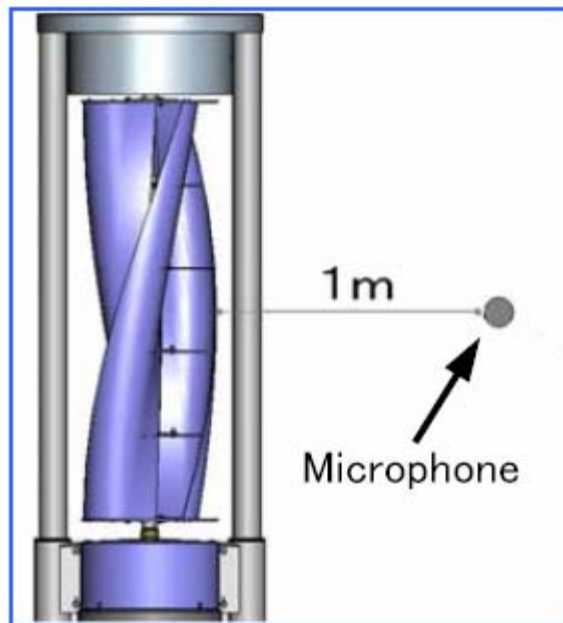
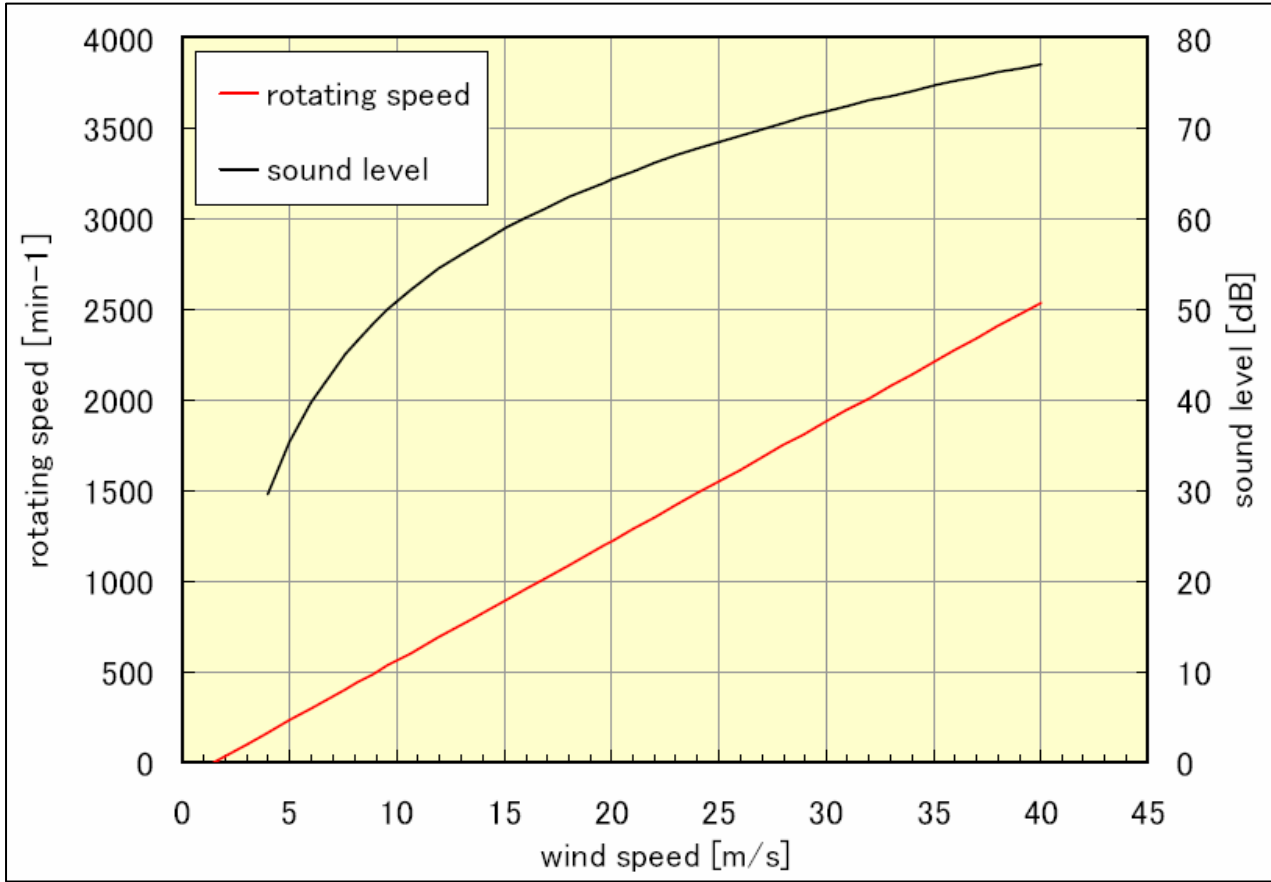
1. Low Noise
  - The use of 'wind cups' instead of rotating blades makes the turbine virtually silent ( see below )
2. High Safety
  - Because the diameter of the turbine is only 380 mm ( about 15 inches ) there is very little centrifugal force, and thus virtually no concern about parts or objects being 'cast' by the turbine as it spins.
  - The Blade material is lightweight GFRP
  - The turbine has an automatic dynamic braking mechanism which prevents the turbine from reaching high rotational speeds even in high winds.

### 3. Specifications



Type	Savonius vertical	
Blades	3 – moulded into one continuous 'column'	
Diameter	380mm	14.96 inches
Height	1160mm	45.67 inches
Material	Glass Fibre Reinforced Polyester	
Starting Velocity	1.5m/s	3.4 mph
Sound Level	58dB(A)	equal to quiet conversation
Measured at :		
wind speed	15m/s	33.6 mph
Receiver position	1m from turbine	3.3 ft

## Sound Level vs Rotational speed graph



Measurement position