

Instruction Manual

Home Wind Turbine Kit

Please read this document 1st before attempting
full installation

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1. Introduction

Our home wind turbine instruction manual has been created with the intention of filling in any gaps between the instructions booklets provided with each individual kit item.

Please carefully read the full instructions accompanying each product in our wind turbine kit to gain a full understanding of the respective product before carrying out the installation.

Please refer to section 2 and read through all safety information before attempting to construct this kit.

Additional items required:

- Wire strippers
- Medium sized screwdriver
- Soldering iron
- 2nd person to help out

The whole installation process should take no longer than one hour to complete once you have carefully read through all of the accompanying instructions booklets.

Installation will take longer for setting concrete foundations for permanent installations.

2. Safety Information

Please note:

It is very important that the sealed battery casing is not damaged by heavy handling. The battery contains hazardous substances that must be kept away from skin, eyes and mouth and are also very damaging to the environment should they leak. The battery is very heavy so care must be taken while moving.

Please be careful not to erect the turbine in an area where children can gain access to it. Even though once installed they are over 6m, children may be inclined to climb on the tower and rigging.

Please also bear in mind any animals which may cause damage to the tower and rigging e.g. horses if installing near stables.

Upon installation please ensure that once the turbine is up and running you keep an eye on the guy wire tension.

Over time the guy wires may work loose causing the turbine to over vibrate or, in the worst case scenario, to fall and cause injury or damage. Regular checks are advised.

For turbines without a furling tail design, please ensure they are kept out of high winds which may cause damage. Regulator shutdown switches can be used to stall the turbine before the onset of very strong winds. The non-furling turbines will not be covered by the warranty if they are subjected to damaging high winds.

Health and Safety: Please ensure hand, eye and foot protection is worn throughout the full turbine kit installation.

Finally, please ensure all kit components, other than the turbine and mounting structure, are kept in a water tight but ventilated environment.

3. Component Checklist

The home wind turbine kit will arrive in separate parts and sometimes on different pallets. Once the whole kit has arrived check you have received the following components:

- Wind Turbine (plus instruction manual)
- Mounting poles (Tower Kit) and rigging (Tower Rigging Kit) (plus instruction manual)
- 16m cable
- Regulator (plus instruction manual)
- Battery (plus battery connectors)
- Inverter (plus instruction manual)
- Wind Trap extra connector kit (plus instruction manual)

Please take the time to read through each instruction manual per individual product received. This will give you a good overview of exactly how the turbine components work and interact together.

4. System Overview

The diagram below is a basic overview showing where the components are positioned in the system.

Using the diagram and the following connection information you should have no trouble understanding your turbine installation.



1. Wind Turbine
2. Tower Kit and Tower Rigging Kit
3. Cable
4. Regulator
5. Battery
6. Inverter

5. Fault Finding

We are confident that you shouldn't find any faults with the turbine system provided. If however a fault does occur please contact us at Wind Trap using the contact details provided and we will be happy to help and offer the appropriate advice.

6. Additional Information

- **Temporary mounting**

Temporary wind turbines shouldn't require planning permission. However, we do recommend that you contact your local planning authority before erecting your turbine. www.planningportal.gov.uk

- **Permanent mounting**

If you are planning to erect your turbine on a permanent basis then you will need to apply to your local planning authority to gain permission. However, due to the recent introduction of the National Planning Policy Statement 22 (PPS22) your local authority should "promote and encourage" the development of renewable energy resources.

It is recommended that any land based wind turbine is mounted as a permanent structure using the corresponding Tower Kit and secured into place with the Tower Rigging Kit.

For further information regarding both permanent and temporary mounting of wind turbines please contact your local planning authority by visiting the following web address: www.planningportal.gov.uk

- **Furling tail design**

Please note that any turbines without the furling tail design must be kept out of high gusts of wind. The turbine, without a furling tail, will not be able to turn away from high gusts therefore no protection is offered. Turbines without this safety feature will not be covered by the warranty if subjected to high gusts of wind.

- **Guarantee**

The limited warranty provides free replacement cover for all defects in parts and workmanship (as confirmed by the supplier) for 12 months from the date of purchase. A valid proof of purchase will be required if making a warranty claim.

The warranty is void in the event of improper installation, owner neglect, misuse, damage caused by flying debris or natural disasters including lightning and hurricane force winds.

Please view each individual item warranty for further information.

- **Performance**

Renewable energy by its nature is unpredictable. The power generation and output results can vary depending on many factors such as weather, battery condition, location and customer installation.

Please bear this in mind and install your turbine in the best possible location.

- **Planning permission**

Planning permission varies between different planning authorities. Please contact your local planning authority to discuss permanent wind turbine installations www.planningportal.gov

7. Contact Information

Please feel free to contact us for further assistance and we will do our best to assist you.

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