



**RENEWABLE  
SOLUTION PROVIDED**

Low cost, low  
carbon, heating and  
hot water solution for  
social housing

## WISBECH BUNGALOW GETS ENERGY EFFICIENT WITH ECODAN<sup>®</sup>

David Higham was completely stunned when just one month after taking up residence in a two bedroom, semi-detached bungalow in Wisbech, Cambridgeshire, he received an energy bill for £300.

Since his move to the property in November 2012, he had been struggling to keep it at an even temperature using the electric storage heaters he had inherited - even though the home is double glazed and has cavity wall and loft insulation.



Air Conditioning | Heating  
Ventilation | Controls



**ecodan<sup>®</sup>**  
Renewable Heating Technology



**The 5kW Ecodan (PUHZ-W50VHA) air source heat pump fitted to the bungalow works at variable capacities between 1.5kW and 5.2kW.**

For the sixty year old, health issues meant that a warm home was extremely important and Mr Higham could not afford to compromise on heating. But the exceptionally high electricity bill generated by the storage heaters resulted in him falling into debt with his utility provider.

As part of a rolling programme to update the old heating systems fitted to some of their properties, Roddons Housing Association has begun replacing them with systems that use renewable technology. The tried and tested Ecodan® air source heating solution is not only energy and cost-efficient but also helps to reduce the CO<sub>2</sub> levels produced by a building.

“We know how important it is to tenants to have a warm, comfortable home and we are keen to provide them. We’re also aware that many tenants are on fixed incomes and are vulnerable to falling into the fuel poverty trap, so it has to be at a cost they can afford,” said Gary Breame, Senior Surveyor for Roddons. “The new Ecodan is an energy efficient heating system which does just that, whilst helping us to achieve our aim of reducing the Housing Association’s CO<sub>2</sub> output.

“We have fitted well over a hundred Ecodan heat pumps to our properties and our repair call-out sheets confirm that we have had very few problems,” said Mr Breame. “The air source heat pumps are really easy to fit and Mitsubishi Electric provides us with great technical support whenever we require it.”



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Certificate Number: MCS HP0002  
Product Reference: PUHZ-W50VHA-(BS)  
PUHZ-W85VHA2-(BS),  
PUHZ-HW140VHA2/YHA2-(BS)



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**The 200 litre stainless steel cylinder comes pre-wired and pre-plumbed for ease of installation.**

The 5kW Ecodan (PUHZ-W50VHA) heat pump fitted to the bungalow is the smallest capacity unit in the range and works at variable capacities between 1.5kW and 5.2kW.

Since its installation David Higham has enjoyed the benefits of a warm cosy home with a constant supply of hot water at far less cost when compared to his previous bills.

Ecodan air source heat pumps can be retrofitted to an existing property or installed to a new build. The external unit takes heat energy from the outside air and upgrades it into a useful heat which is used to heat the hot water supplied to radiators within the home and to provide sanitary hot water.

Water is stored in a Mitsubishi Electric 200 litre cylinder and the system is controlled by a simple-to-operate FTC-3 controller. The FTC-3 has a high-end graphical interface and self-learning room temperature control, and offers three different access levels for the homeowner, the installer and for maintenance checks.

The third-generation Ecodan controller also increases efficiency by providing a smooth heat curve to suit the load compensation and increasing the heating response times according to the season. It can automatically calculate the optimal flow temperature to match the target room setting.



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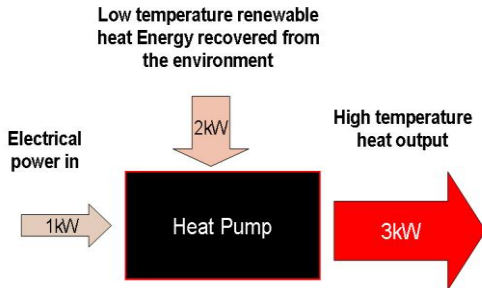
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# Heating

## Case Study

Wisbech Bungalow  
June 2013

Making a  
World of  
Difference



For every 1kW of electricity used to power an Ecodan heat pump, up to 3kW of heating energy can be generated.

“The old storage heaters were really inefficient and the house was never really warm,” said Mr Higham. “The new system is just brilliant. It’s clean, efficient and the whole house is warm throughout. I have much more control over it now and can choose when and where I apply the heating.

“But best of all, my energy bills have come right down and I’ve been able to clear my debt. I monitor all my energy usage now and I can tell you that my average bill is around £20 a week, which rises to just under £25 when it’s freezing outside.”

The bungalow has been fitted with an energy monitoring system, installed by Mitsubishi Electric, which allows both Mr Higham and Roddons Housing Association to keep a check on how the system is performing. It also enables them to compare energy usage with the property’s previous heating system and chart the reduction in its CO<sub>2</sub> emissions.

## Installation Summary

### Application type

2 bedroom, semi-detached bungalow

### Product:

Ecodan PUAZ-W50VHA  
Ecodan 200 litre packaged cylinder

### System capacity:

5kW

### Heat delivery method:

Radiators

For further information on Roddons Housing visit

<http://www.circle.org.uk/roddons>

For further information about Ecodan air source heat pumps visit <http://heating.mitsubishielectric.co.uk>



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