



**RENEWABLE
SOLUTION PROVIDED**

Retro fit of new hot
water system to
existing cylinder

RENEWABLES SPECIALIST SELECTS ECODAN HYDROBOX FOR HOME COMFORT

When Warren Gray - owner of Northburn Solar, a company specialising in renewable technology based in the North-East - needed a new heating and hot water system for his own home, he knew just where to look.

“My company has a wealth of experience in renewables so I know a thing or two about them and how they perform,” said Warren. “I didn’t want to compromise on efficiency and performance, or pay a prohibitive price to run it, and it would have to fit with my existing water cylinder. I am also very aware of environmental issues so I wanted a system that would reduce my carbon output too. So with all these things in mind, I chose an 8.5kW Ecodan and Hydrobox to do the job.”



Air Conditioning | Heating
Ventilation | Controls



ecodan[®]
Renewable Heating Technology

Heating

Case Study

Northburn Solar November 2012

Making a
World of
Difference



Heat pumps harvest renewable, low grade energy from the outdoor air, upgrades it and uses it to heat the home.

Installation Summary

8.5kW Ecodan and Hydrobox

Replaced gas central heating

Retro fit to third party cylinder

FTC3 controller

The Hydrobox is designed specifically to integrate with the Ecodan air source heat pump range, but it can also accommodate a third party cylinder. It is highly adaptable and works equally well whether installed as a retrofit or in new builds.

Warren decided to fit the new system himself and first installed a Mitsubishi Electric Ecodan air source heat pump to the outside wall of his home. From here the pump now harvests renewable, low grade energy from the outdoor air which is upgraded into heat and used to heat the water supplied for domestic use and the radiators within the home.

The Ecodan heat pump unit is extremely energy efficient and helps keep energy bills to a minimum. For every 1kW of electricity fed into it, it can produce up to 3kW of heating energy and the outdoor unit will continue to work all year round, whatever the weather, even if temperatures drop as low as -20°C.*

Next Warren fitted the Hydrobox which came pre-wired and pre-plumbed allowing for quick and easy installation, something that he particularly appreciated. A packaged Hydrobox solution is available for use in applications like Warren's where the flexibility to link to an existing cylinder is required, making it ideal for retro-fit.



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Certificate Number: MCS HP0002
Product Reference: P/Hz-WSD/HA-B/S
P/Hz-WSD/HA2-B/S
P/Hz-HW1-4SD/HA2/Y/HA2-B/S



www.greengateway.mitsubishielectric.co.uk

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The Hydrobox comes pre-wired and pre-plumbed for quick and easy installation

Incorporated is Mitsubishi Electric's advanced, third-generation, FTC3 controller which makes operating the system extremely simple. The intelligent, self-learning, room temperature control comes as standard and its simplified graphical user interface means that Warren can now check his room temperature at a glance.

An advanced weather compensation system ensures that the heating delivers a comfortable room temperature all year round, regardless of the season.

"I'm really happy with the new system, the house is always at a comfortable temperature and we have plenty of hot water, and if energy bills rise as much as they are predicted to do, my pocket will be very happy too," said Warren.

For further information about Northburn Solar visit www.northburnsolar.co.uk

For further information about Ecodan or Hydrobox, visit <http://heating.mitsubishielectric.co.uk>

*The efficiency of an Ecodan system and the amount of energy saved relies upon a satisfactory system design, the installation levels within the home, and using correct operational settings.

Ecodan model PUAZ-W50VHA and PUAZ-W85VHA Ecodan models have guaranteed operating lower limits of -15°C and -20°C respectively. PUAZ-HW140VHA/YHA is -25°C.



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PUAZ-HW140VHA/YHA-BS



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