



enjoy an extra *warm feeling*



ecodan[®]
Renewable Heating Technology

Hundred of thousands of UK households can benefit from a government scheme to help reduce the upfront cost of transitioning to an **Ecodan** air source heat pump.

From the Isle of Skye to the Isle of Wight, in flats, bungalows and houses, when transitioning to a renewable heating system - **there is an Ecodan to suit your needs.**


Whether in self build projects or retrofitting an existing home, supporting our journey to Net Zero, an Ecodan can help cut your energy bills and reduce your carbon emissions.



SCAN THE QR CODE FOR MORE INFORMATION ON THE BOILER UPGRADE SCHEME



BOILER UPGRADE SCHEME

£5k 

UPFRONT GRANT TO GET YOUR ECODAN





George Clarke
Ecodan Brand Ambassador

TV presenter, architect, lecturer and writer, George Clarke is a passionate advocate of design excellence and high levels of quality in the construction industry.

“ The way we design, build, heat, power and recycle our homes needs to change, and change quickly, and renewable heating is an important part of our future. I’m therefore delighted to associate myself with **Ecodan**, the market-leading brand of heat pumps built here in the UK, which can lower emissions for almost any home. ”

READ MORE FROM GEORGE
ON ‘THE HUB’, OUR
AWARD-WINNING BLOG

SCAN THE QR CODE OR VISIT:
THEHUB.MITSUBISHIELECTRIC.CO.UK



You've already been using a heat pump in your home for decades... your fridge!

The technology inside an air source heat pump is very similar to that of a domestic fridge - transferring heat from one place to another - the back of your fridge is warm because it is removing heat from the food inside the fridge out into your kitchen.

An Ecodan air source heat pump sits outside your home and extracts warmth from the outdoor air. It upgrades this renewable heat energy and transfers it inside the home to provide hot water and heating for radiators and / or underfloor heating.

Like your fridge, it will do this quietly and reliably, all year round, **even in sub-zero temperatures down to -20°C.**





enjoy added benefits

■ Modern control

In-built smart controls put you in total control whether you are in your armchair, at work, or on the way to the airport.

■ Performance

With the highest energy rating (A++) available, you can be sure that Ecodan is working hard to minimise your energy bills.

■ Whisper-quiet

Market leading low noise levels minimise any potential disruption and make it easy to meet and beat planning regulations.

■ Flexible

Don't have the funds to replace your existing heating system - our **hybrid option** works with your existing boiler, meaning you can often keep your current radiators.

■ Reassurance

Full service and maintenance packages include remote diagnostics to provide you with complete peace of mind.



How a typical Ecodan system works

Installing an Ecodan air source heat pump system in your home to provide low cost, renewable heating and hot water all year round is as easy as **1, 2, 3...**

1 OUTDOOR UNIT

Only requiring electricity and water connections, the ultra quiet, low maintenance Ecodan outdoor unit is easy to install and can be situated discreetly outside your home or in your garden.

Ecodan upgrades freely available heat energy from the air and transfers it to the home to provide hot water and heating for radiators and / or underfloor heating.



NO NEED FOR GAS SUPPLIES,
FLUES OR VENTILATION



2

HOT WATER CYLINDER

The Ecodan outdoor unit provides your home with a continuous supply of hot water via a dedicated hot water cylinder.

These cylinders are specifically designed to integrate with the outdoor unit and offer optimum performance and faster heat up times through the use of advanced plate heat exchanger technology.



3

ENERGY EFFICIENT CONTROL

IN THE HOME



Ecodan's advanced and user friendly **wireless controller** includes intelligent temperature control to provide efficient, comfortable heating regardless of the season. Fully programmable, holiday mode and simple room control all come as standard.

Control your home's heating and hot water from your smartphone, tablet or computer via the internet with Mitsubishi Electric's **MELCloud app**.

OR ON THE MOVE



MELCloud



Enhance your heating system with the i-Life2 Slim Fan Assisted Radiator

We also have a radiator product which has been designed to work seamlessly in your home. Suitable for connection to a variety of different heating systems including an Ecodan air source heat pump, maximising their efficiency.

Like a traditional radiator i-Life2 Slim takes heat from the water pipes. A small integrated fan is used to quietly blow warm air round the room, helping to distribute heat more evenly and keeping energy consumption to a minimum.

How it can fit into your home

The i-Life2 Slim can replace existing radiators on existing pipework. This can allow individual radiators to be replaced.

The i-Life2 Slim is also easy to use and with a few clicks on the digital display, you can achieve your desired level of comfort quietly and quickly, without wasting precious energy.



50%
WALL SPACE
SAVING



i-LIFE2 Slim

* Compared to a conventional double panel steel radiator.



enjoy a breath of fresh air

Ventilation at home

In order to improve the indoor air quality of a home, especially for modern homes with high insulation afforded by double glazing and cavity insulation, we recommend a **Lossnay Mechanical Ventilation with Heat Recovery (MVHR)** system.

The unit is simultaneously able to extract stale air and ventilate, whilst recovering heat energy to minimise energy use for space heating. The benefit is stale air is replaced with fresh air whilst maintaining the indoor temperature of the home.

These systems can be fitted into loft spaces and connected via ductwork to the required rooms, or wall mounted in a single room.

They are energy efficient solutions for the whole house and provide a clean, fresh air supply.



WALL MOUNTED LOSSNAY UNIT

Choose an Ecodan system that suits you best

Typically installed in a few days, our Ecodan heating systems are available in a range of sizes to suit most UK homes.

To understand which system is right for you, factors such as the age of your property, the levels of insulation and the way you use your heating will all affect the final choice.

That is why we recommend getting in an expert, and why we encourage our heating installers to attain Microgeneration Certification Scheme (MCS) Accreditation*. Our heating installers will assess your home and advise you on the best system to suit both your lifestyle and your budget. This may be a hybrid system that works in conjunction with your current heating system; or a brand new system designed to provide all your hot water and heating needs.

For further information please visit: ecodan.co.uk

Three basic choices:

1
REPLACEMENT
SYSTEM

2
NEW /
SELF-BUILD
SYSTEM

3
HYBRID
SYSTEM

1. REPLACEMENT SYSTEMS

If you're looking to replace your existing heating, our award winning Ecodan Air to Water system is the perfect solution for a large range of property types.

Ecodan is available in four sizes, with a variety of cylinders and smart controls.

- Boiler Upgrade Scheme Eligible
- Self-contained unit, only requiring water and electrical connections
- No need for gas supply, flues or ventilation
- Low maintenance requirements that are similar to a typical fossil fuel boiler system

PUZ-WM-VHA
outdoor units



PUZ-WM-V/YAA
outdoor units



PUZ-HWM-V/YHA
outdoor units

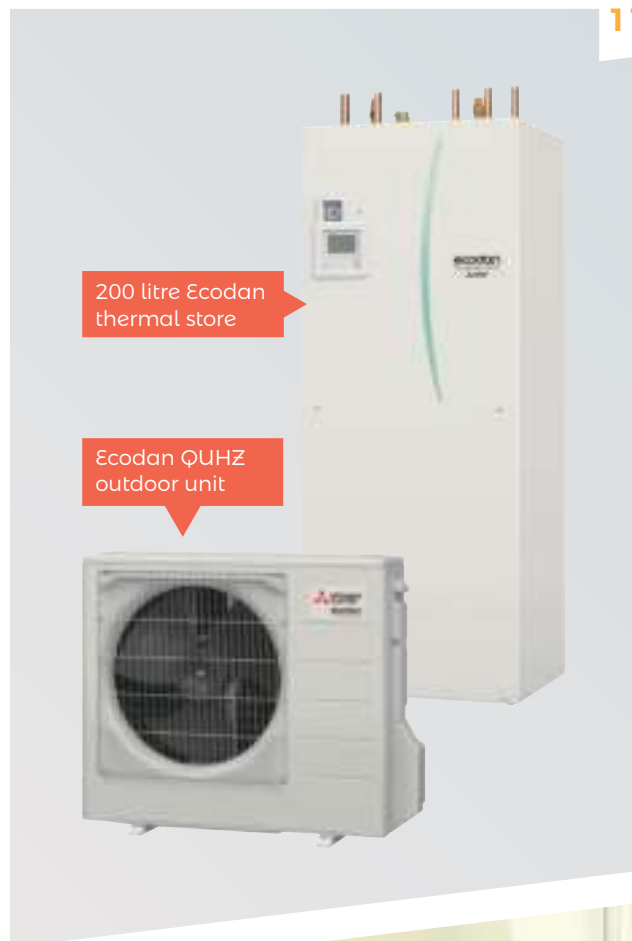


2. NEW / SELF-BUILD SYSTEMS

As well as our PUZ systems, the unique, award-winning Ecodan QUHZ is the ideal solution for new build homes.

The QUHZ has been specifically designed to operate with exceptionally high efficiency in the production of hot water, whilst still providing renewable space heating for the home all year round.

- High efficiency hot water heating performance via a dedicated Thermal Store
- Low noise operation
- High hot water capacity for both large and small homes
- Can also be used as a replacement system



3. HYBRID SYSTEMS

Our hybrid Ecodan heating systems deliver efficient, renewable heating in tandem with an existing boiler.

A hybrid system allows the heat pump to deliver the majority of heating with the existing boiler providing peak output if needed.

- Improves energy use leading to lower running costs and CO₂ emissions
- Smart controls choose which system to use to maximise efficiency
- Suitable for gas, oil and LPG applications
- Lower capital cost



Why you should choose a Mitsubishi Electric accredited heating installer

Mitsubishi Electric has a UK network of accredited heating installers. Along with our UK-based technical support staff, who are available via the Homeowner Support Helpdesk, our installers provide a high quality, professional service and can help you throughout the process of choosing the right Ecodan system for you.

By using a heating installer endorsed by Mitsubishi Electric, you are assured of a reliable standard of service and installation. Our heating installers are all trained by us so they understand the technology. They can install and set up your system so that it runs at its highest efficiency and are on hand too should you need anything repaired. Our installers have the design support of our highly qualified team of pre-sales engineers and also offer expert service and maintenance that will greatly increase your system's lifespan.

Many of our installers are Microgeneration Certification Scheme accredited.

MCS is a nationally recognised quality assurance scheme, supported by the Department for Business, Energy & Industrial Strategy.



OUR INSTALLERS
HAVE THE DESIGN
SUPPORT OF OUR
HIGHLY QUALIFIED
TEAM OF PRE-SALES
ENGINEERS

The Mitsubishi Electric Homeowner Guarantee

The Mitsubishi Electric Homeowner Guarantee for our domestic heating products means that you can be assured that during the guarantee period the claim process will be hassle free.

Our Homeowner Guarantee is dependent on the product(s) being registered within three months of them being installed and commissioned.

The length of our Homeowner Guarantee depends on what product is registered and who has supplied and fitted it. If the product has been installed and registered by one of our accredited heating installers, the guarantee period will be at least three years.

enjoy total peace of mind

SOLVE YOUR HEATING ISSUES WITH JUST ONE PHONE CALL

MELConsole from Mitsubishi Electric allows owners of an Ecodan heating system with MELCloud to interrogate and often fix their heating issues without needing a visit from an installer.

One phone call to our Technical Helpdesk provides instant remote access to full monitoring and fault diagnostics, meaning that issues with your heating can often be resolved over the phone.

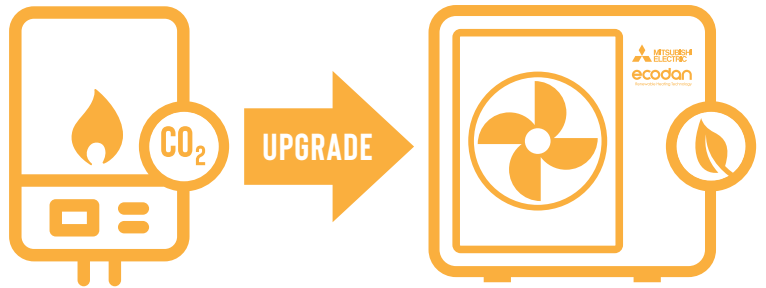
MELConsole is a service of the MELCloud App, the cloud-based solution for controlling Ecodan heating systems, either locally or remotely.



The Boiler Upgrade Scheme (BUS)

The Boiler Upgrade Scheme provides upfront capital grants to support the installation of heat pumps in homes.

This Government funded, simple and easy to access Ofgem managed scheme will help to kick-start the heat pump market and ensure that the UK can achieve its **Net Zero target**. This voucher scheme can be claimed when an MCS certified renewable heating system is installed, applies to all **retrofit and self-build properties** in England & Wales and will be processed by your chosen registered installer on your behalf.



UPFRONT CAPITAL GRANT



enjoy financial support

How to apply for the Boiler Upgrade Scheme

The Boiler Upgrade Scheme is available in England & Wales*.

Our **step by step guide** helps you through the process of applying for this grant which will reduce your upfront cost.

- STEP 1 ▶ Homeowner selects and instructs an Installer to carry out the installation
- STEP 2 ▶ Installer collects the necessary information and applies to Ofgem for a voucher
- STEP 3 ▶ Ofgem contacts the property owner to obtain their consent to use the voucher
- STEP 4 ▶ Ofgem assesses the application and issues the voucher to the installer once approved
- STEP 5 ▶ Installer completes installation
- STEP 6 ▶ Installer then applies to Ofgem to redeem the voucher
- STEP 7 ▶ Ofgem pays the grant to your chosen installer

For more information on how to apply for BUS scan the QR Code or visit:
les.mitsubishielectric.co.uk/the-boiler-upgrade-scheme



* Alternative schemes available in Scotland



Ecodan case studies



Lower heating bills whilst caring for the environment

When Mark Christian was looking for a heating system for his new family home, he wanted a renewable system that would help reduce energy consumption.

“We selected our Ecodan heating system as it is priced competitively and offers higher efficiencies compared with other brands. It’s very simple and easy to control,” he explained. “We have kept it switched on at a constant temperature and it has been working really well. There’s also an energy meter which keeps a record of the energy input and heat output, so we can see how efficient and effective it is.”

“We have definitely saved money on our energy bills since the heat pump was installed, even with the cold weather we’ve had since the start of the year”



Installation summary:

- 8.5kW Ecodan air source heat pump installed to deliver heating and hot water
- The standalone system works with a 250 litre solar hot water cylinder



The renewable heating alternative to oil with Ultra Quiet Ecodan

When homeowner Nigel Furr was looking to convert a 2-bed bungalow into a 4-bed chalet, he needed to find a cost-effective heating system that would deliver reliable heating and hot water all year round.

Completed in November 2018, the Milton Keynes property is off the gas network but Nigel didn't want to use oil due to the high monthly running costs and large oil tank. After hearing from a neighbour that air source heat pumps have lower running costs and are more environmentally friendly compared to an oil system, he thought this was the best solution.

Nigel selected the Ultra Quiet Ecodan unit which has market leading sound performance. The system provides heating to the downstairs underfloor heating, upstairs radiators and hot water from a 300 litre pre-plumbed cylinder.

“Implementing the Ecodan was at the centre of our bungalow build, as it offers state of the art technology which produces a consistently warm ambient temperature throughout a 201 m² footprint.”

“Ecodan’s green credentials mean that we expect noticeable costs savings this winter period”



Installation summary:

- 11.2kW Ultra Quiet Ecodan
- 300L cylinder
- The heating system is controlled via wireless MELCloud locally or remotely



New-build home uses cutting-edge Ecodan QUHZ

This spacious 3-bed, detached home is built to exceed current UK building standards, paying particular attention to high levels of insulation and air tightness.

With the space heating energy requirement lower than the hot water energy requirement, the heating system has to cope with hot water production as the dominant load.

The Ecodan QUHZ has been specifically designed with new-build standards of insulation and lower heating loads in mind. "We schedule the hot water to come on at intervals to meet our needs."

"The heat pump runs at night and we are very impressed with how quiet it is," explain Jon and Maureen Fox, the homeowners.

"The ground floor is lovely and warm when we get up in the morning and we've hardly needed the heating on upstairs as the eco-house retains such a lot of heat"



Installation summary:

- Ecodan QUHZ Monobloc 4kW air source heat pump
- The system delivers heating via underfloor heating throughout the ground floor and to traditional radiators upstairs
- The outdoor unit delivers water at 70°C to a packaged 200 litre thermal store
- Built-in energy monitoring, using MELCloud, the internet-based system which allows full control and monitoring from anywhere in the world



Family benefits from heat pump installation at new build home

A young family are benefitting from energy efficient heating at their new build home in the leafy hamlet of Sough, thanks to the installation of an 8.5kW Ecodan Air Source heat pump.

Development of the spacious four-bedroom property began in August 2020 and was completed in April 2021. The Sough property is a highly insulated timber frame home, and the 8.5kw air source heat pump was chosen as the perfect solution to help the home reduce energy consumption and cut both energy bills and CO₂ emissions.

The developer installs Mitsubishi Electric's air source heat pumps in all new build homes, as the technology supports their goal of building high performance and low energy homes. This was a unique feature and selling point of the property and offers homeowners the reassurance that heating costs would be kept down.

Now the homeowner will get the benefits of not having to worry about having a warm and comfortable home.

Installation summary:

- 8.5kW Ecodan air source heat pump
- 300L cylinder
- The heating system delivers heating via radiators and underfloor heating



Refurbishment now provides home with warm, efficient heating

The owners of a detached house started their refurbishment and decided that they wanted to take a different approach to their heating rather than the traditional system. Currently, a gas boiler is installed; however, when looking to replace it, a more sustainable form of heating was considered.

When reviewing the available heating methods to suit the house, a Mitsubishi Electric Ecodan was identified as the ideal solution for heating this home.

An Ecodan 11.2kW air source heat pump was installed and paired with photovoltaic panels and a third party cylinder. The unit will supply the home with heating via radiators and provide hot water whenever the homeowner needs it.

“The house is constantly warm and we have plenty of hot water It’s also a nice looking unit and makes hardly any noise”

Commented Mr Ostle, the homeowner



Installation summary:

- 11.2kW Ultra Quiet Ecodan
- The system delivers heating via radiators and is paired with photovoltaic panels and a third party cylinder



Ecodan Selection Tool

We have developed an Ecodan Selection Tool to help homeowners select their ideal heating system and get an insight into what a new Ecodan air source heat pump can deliver for their individual project.

By answering a few very simple questions we can now deliver a bespoke proposal for a project, including an estimate of running costs and carbon emissions against alternative systems.

The Selection Tool is available online or as an app for tablets or smartphones:



ecodanselectiontool.mitsubishielectric.co.uk

Quality assured manufacturing

Our manufacturing facility in Livingston, Scotland produces Ecodan air source heat pump controls and cylinders for the UK and European markets.

Mitsubishi Electric's manufacturing plants are all ISO14001 and ISO9001 registered, an international benchmark ensuring we meet and continually improve upon quality and environmental standards.



Manufactured in the UK





READ MORE FROM GEORGE ON THE
'THE HUB', OUR AWARD-WINNING BLOG
mitsubishielectric.co.uk/the-hub

By 2030, the Committee on Climate Change forecasts that heat pump installations will rise to over one million units per year.

“ I’m proud to be one of those millions of people going for an air source heat pump and I hope you will be too. ”

George Clarke

Ecodan Brand Ambassador

Choosing Ecodan from Mitsubishi Electric can help make a world of difference to your energy use today and beyond...

Join the quiet revolution

The way we heat our homes is changing – it has to and this has been recognised by the Government which is encouraging the installation of heat pumps as a renewable alternative to gas, oil and LPG heating.

Mitsubishi Electric has developed their advanced range of Ecodan air source heat pumps over the past decade to deliver a variety of choice for homeowners, regardless of location or property type.

We've already seen tens of thousands of Ecodan units installed around the country, from new-build developments, to refurbished social housing; from terraced homes to country mansions.



See for yourself:

Visit our YouTube channel to hear first-hand from our brand ambassador **George Clarke** and testimonials from people living with Ecodan renewable heating.

 [Mitsubishi Electric Heating UK](#)

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Note: Refer to 'Installation Manual' and 'Instruction Book' for further 'Technical Information'. The fuse rating is for guidance only and please refer to the relevant databook for detailed specification. It is the responsibility of a qualified electrician/electrical engineer to select the correct cable size and fuse rating based on current regulation and site specific conditions. Mitsubishi Electric's air conditioning equipment and heat pump systems contain a fluorinated greenhouse gas, R410A (GWP:2088), R32 (GWP:675), R407C (GWP:1774), R134a (GWP:1430), R513A (GWP:631), R454B (GWP:466), R1234ze (GWP:7) or R1234yf (GWP:4). *These GWP values are based on Regulation (EU) No 517/2014 from IPCC 4th edition. In case of Regulation (EU) No.626/2011 from IPCC 3rd edition, these are as follows. R410A (GWP:1975), R32 (GWP:550), R407C (GWP:1650) or R134a (GWP:1300).

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