MITSUBISHI ELECTRIC
Changes for the Better

ecodan®
Renewable Heating Technology

Reliable renewable
heating & hot water



Trust the Team Behind Your Comfort

MITSUBISHI ELECTRIC

Changes for the Better

How we heat our homes is changing — and for good reason. The Government has already recognised this by introducing a new grant scheme to encourage the installation of heat pumps as a low-carbon alternative to gas and oil heating.

Mitsubishi Electric has developed the 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. And we've already seen thousands of Ecodan units installed around the country, from new-build developments, to refurbished housing; from terraced homes to country mansions.



ecodan®

Renewable Heating Technology

Designed for Ireland and UK temperate climate

The Ecodan range has been Designed in our European Heating Laboratory specifically for Northern European countries such as Ireland and the UK. It has been designed specifically to maximise efficiency for the Irish climate.

It has been optimised to provide all the heating and hot water a home needs, whatever the weather.

The Ecodan air source heat pump provides renewable energy to challenge traditional heating methods, whilst meeting the energy and carbon reduction demands of today and beyond.

We at Mitsubishi Electric are constantly 'Changing for the Better' and today we offer the most advanced environmental heating system that can really make a world of difference.

MITSUBISHI ELECTRIC
Changes for the Better

ecodan®
Renewable Heating Technology

Discover
The Heating Hub
Ireland's Home Heating Questions Answered.

Welcome to The Heating Hub Ireland.

The Heating Hub Ireland is an educational campaign launched by Mitsubishi Electric Ireland, created for the people of Ireland.

Our mission is simple: to help homeowners, self-builders and anyone planning a retrofit understand how modern heating and ventilation technologies, especially Ecodan Heat Pumps and Lossnay Mechanical Ventilation Heat Recovery (MVHR), can make homes warmer, healthier and more energy-efficient.

theheatinghub.ie

Scan Here



What is a Heat Pump?

Controlled comfort with the Award Winning Ecodan range from Mitsubishi Electric.

ecodan®
Renewable Heating Technology

Increasing energy bills, the need to reduce carbon emissions and the raft of challenging legislation are driving the demand for alternative forms of domestic heating.

The Ecodan system provides reliable affordable heating and hot water to help reduce your energy bills. If you're looking to replace your existing heating system, our award winning Ecodan range is perfect for any type of property.

Heat pump technology has been used around the world for decades and Mitsubishi Electric have developed the Ecodan range – one of the most advanced heating systems available today.



MITSUBISHI ELECTRIC
Changes for the Better



Why Choose Ecodan?

Ecodan Heat Pumps are designed to increase the efficiency of your heating system, whilst caring for the environment.*

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 the room. A heat pumps works the same but in reverse.

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.

The self contained unit only requires electric and water connections. It will do this quietly and reliably, all year round, even in sub-zero temperatures down to -25ºC. Furthermore, you can relax knowing that there is no carbon monoxide produced in the house from a heat pump.

For every 1kW of electrical input power Ecodan harvests renewable heat energy from the outdoor air to provide your home with an average of 5kW* of heat – That's up to 4kW of FREE renewable energy! *(A7/W35)

*The overall system efficiency and energy savings will depend on the comparison with your current heating system, satisfactory system design and installation, and operational setting i.e. how you use the heating system.
Efficiency refers to Coefficient of Performance (COP)



What makes ecodan unique?

As Mitsubishi Electric continue to improve and innovate to provide sustainable solutions we have also learnt that having a good heat pump isn't enough – the service, support and add-on features are equally important in delivering the solution.

Built in SD Card and data logging - The SD card records 6 months of usage and performance history meaning that troubleshooting can be done quickly and effectively.

MELCloud Wi-Fi control - MELCloud allows us to offer homeowners fast and easy mobile control and monitoring of the Ecodan system from anywhere in the world.

Built-in energy monitoring- Energy monitoring built in as standard allowing homeowners to view energy consumed and energy delivered.

Wireless controllers - Easy to install and simple to use wireless controllers ensure comfort levels are always met while maintaining maximum system efficiency.

Auto adaptive control – The Mitsubishi Electric FTC control not only operates on weather compensation but also monitors room temperature and constantly compares both, automatically adjusting the weather compensation curve to maintain the maximum system efficiency. Its self-learning ability recognises the heat loss of the building at various ambient temperatures and adapts to respond in the most efficient manner.

Higher outputs & Higher efficiencies – No need to oversize as the Ecodan system maintains high heat outputs at lower ambient temperatures when many others start to fall away - heat when you need it.

Higher flow temperatures – The Mitsubishi Electric Ecodan unit can achieve 75°C flow temperatures as opposed to many other heat pumps temperatures of 50°C - 55°C.

Two different temperature zones – Can operate two different temperature zones – for example underfloor at 35°C and radiators at 45°C.

Hybrid options available – Our Ecodan heat pump can operate and control a third-party fossil fuel system such as a gas or oil boiler

Service & Maintenance package- As a manufacturer we offer a Service & Maintenance package to ensure your heating system is operating smoothly and efficiently

Quiet operation
Ultra-quiet operation and additional soundproofing help minimise noise.

Lower environmental impact
The new R290 range uses a natural refrigerant (R290) with a very low Global Warming Potential of 3, or 0.02 according to IPCC AR6.

Ecodan is classified as a renewable energy source because it captures free energy from the air.

ecodan®
Renewable Heating Technology

Frequently asked questions?

ecodan® Renewable Heating Technology

FAQ's

Q. Who are Mitsubishi Electric?
Founded in 1921 in Japan, we are a global market leading environmental technologies manufacturer. Our systems have been providing heating and cooling solutions for decades in the most energy efficient ways possible.

Q. Are Mitsubishi Electric based in Ireland?
Mitsubishi Electric have been based in Ireland since 1981. As market leaders in the heating and cooling industry in Ireland, we have our main office in Dublin, a warehouse based in Kildare and country wide support.

Q. How do Heat Pumps work?
They use the same principle as your fridge, compressing gas and then allowing it to expand, extracting heat as it does so. Even if the air outside is freezing, heat pumps can extract heat energy and transfer it inside to keep you warm.

Q. Are Mitsubishi Electric Heat Pumps suitable for the Irish climate?
Yes, the Ecodan range has been specifically designed for Irish conditions. Research conducted in Ireland has shown that Ecodan is ideal for our relatively mild winter climate.

Q. Why are Heat Pumps better than other forms of heating?
Firstly, they are much more efficient than regular heating systems which means they often cost less to run. They are also very safe as they don't have any dangerous flue gases unlike gas or oil. Heat pumps produce a more even temperature profile in your home avoiding the highs and lows of conventional heating systems meaning a higher level of comfort for the homeowners.

Q. What sort of properties are suitable for Ecodan?
Ecodan heating systems are suitable for all homes. The site should be surveyed and sized by a trained Ecodan installer.

Q. What factors will affect the size of Heat Pump I need?
The size of the heat pump will depend on the heat loss of your home. Your Ecodan installer can advise on this.

Q. What is R290?
R290 is propane, a natural, energy-efficient refrigerant with very low global warming potential (GWP), meaning it is better for the environment and often has higher flow temperatures.

Q. Do Heat Pumps take up a lot of room?
Our units are compact and space efficient. The indoor unit is a similar size to a standard fridge and is usually fitted into your hot press, utility room, plant room, airing cupboard or loft. The outdoor unit is usually about the size of an air conditioning unit or small washing machine. It sits outside your home as it needs clear airflow space around it.

Q. How easy is it to install Ecodan?
The Ecodan system is easy to install and usually takes about two days depending on the installation. This can be done with minimum disruption to the occupants of the home.

Q. Will Ecodan work with my existing radiators?
Yes, in many cases the existing radiators can be used. Your Ecodan installer will survey the radiators to ensure they are suitable for the system to operate efficiently.

Q. Is an Air Source Heat Pump Efficient?
In short, air source heat pumps (ASHPs) use around 1 kW of electricity to deliver up to 5kW* of heat into your home by extracting energy from the outside air. Their efficiency is measured by the Coefficient of Performance (COP), which expresses how much heat energy the system produces for each unit of electrical energy it consumes. For example: If a heat pump has a COP of 5, it delivers 5kW* of heat for every 1 kWh of electricity used. This equates to a 500% efficiency, as it produces four times more heat energy than the electrical energy it consumes. The actual COP varies with factors such as outdoor temperature and system design. Mitsubishi Electric Ecodan air source heat pumps typically achieve COP values between 3 and 5 under standard conditions. *A7/W35.

Q. Is there a grant available?
There are grants available in Ireland for Heat Pumps through the SEAI (Sustainable Energy Authority of Ireland). Ecodan air source heat pumps are eligible for SEAI grant subject to meeting the SEAI terms. For more information, visit the SEAI's website at www.seai.ie.

See more FAQ's at theheatinghub.ie or scan the QR code.

MITSUBISHI ELECTRIC
Changes for the Better



Dermot's Story

Comfort by Design - Dermot Bannon's Ecodan Heat Pump Experience

How an architect passionate about sustainability, replaced his gas boiler with an Ecodan heat pump — turning a century-old house into a modern, efficient, and low-carbon home.

The Background
In 2018, Irish architect and TV presenter Dermot Bannon bought a small 1920s house in Drumcondra, Dublin. The home's original gas boiler couldn't retain heat, often leaving frost on the windows. With a G BER rating, the lowest possible, the property suffered from poor insulation and inefficient windows.

In 2019, Dermot began a full retrofit, extension and renovation, including installing a Mitsubishi Electric Ecodan Air Source Heat Pump. At the time, achieving at least an A3 BER rating was required for an SEAI grants (currently you need a B2 rating). Raising his home from G to A3 was no small feat, but Dermot knew from experience that a successful retrofit relies on three key principles:

1.) Insulation is Key – Dermot's extension wrapped around the original house, creating an airtight, insulated barrier to prevent heat loss and drafts.

2.) Don't Forget Ventilation – A mechanical heat recovery ventilation (MHRV) system maintains air quality, pre-warming fresh air while reducing condensation and mold.

3.) The Importance of a Good Heating System – Dermot chose the most efficient option available: a Mitsubishi Electric heat pump, paired with underfloor heating downstairs and radiators upstairs.

The Challenge
Dermot's main hurdle was navigating the many heat pump options. By consulting plumbers; the experts who install and maintain heat pumps, he asked which brand they would choose for their own homes. The clear winner: Mitsubishi Electric's Ecodan Heat Pump.

The Solution
After contacting us in Mitsubishi Electric, a smaller, more efficient unit was installed due to the home's excellent insulation. Placed discreetly in the back garden, it provides efficient heating and hot water. It also helped Dermot's home jump from a G to an A2 BER!

The Result
The Ecodan system delivers consistent warmth, quiet operation, and all the hot water the family of 5 need. "If you're asking me what it's like to live with a heat pump," Dermot states, "I don't even know we live with a heat pump because we never have to do anything. We never have to control anything or switch anything on"

The Conclusion
Dermot's home is now fossil fuel free, comfortable year-round and future-proofed. His top benefits: easy to live with, efficient, sustainable, low-carbon and supported by a strong service network. For Dermot, the Ecodan heat pump is a reliable, sustainable and effortless part of daily life.

Scan the QR code to Watch the Full Case Study





Service & Maintenance

In order to ensure you get the maximum performance from your Ecodan Heat Pump throughout its working life, you need to arrange for the system to be regularly serviced and maintained. As part of our annual maintenance package, a member of our Ecodan Technical Services Team will visit your home or business to complete a comprehensive 60+ point check on your heating system, which ensures it is running optimally.

By servicing your heating system annually you ensure that your system runs efficiently, and that your warranty conditions are met, as well as reducing any potential costly issues in the future. Our engineers will leave your system running at its optimum efficiency as well as answer any questions you may have regarding your heat pump and provide you with peace of mind.

Benefits of our service and maintenance plan:

- Prolongs the life of your Ecodan System
- Can reduce your running costs
- Ensures that the Ecodan is operating at maximum efficiency
- Peace of mind your system is operating correctly
- We can sign you up for a reminder for when your next service is due
- Compliments and maintains Mitsubishi Electrics Equipment







MITSUBISHI ELECTRIC
Changes for the Better

Book your service with us today by visiting:

We also have a network of nationwide trusted providers who are all trained on our technology and can service your heat pump for you.

Find an installer



Take control of your home heating with MELCloud Home

Effortless control

MELCloud Home is the new generation of Cloud based control for Mitsubishi Electric Ecodan Heating Systems. MELCloud Home provides users with effortless control of your devices whether you are out or are just lying on your sofa at home. MelCloud Home provides real-time monitoring of the system's energy usage as well as remote operation of the heat pump system.



Accessing and controlling your Mitsubishi Electric products has never been simpler and is now possible via a wide range of PC, tablets and smartphones.



Solve your heating issues with just one phone call

MELConsole provides remote maintenance & technical support, via the MELCloud Home app, allowing Mitsubishi Electric to investigate and often fix any heating issues without the need for a visit from an engineer.

Available on the App Store

ANDROID APP ON Google play

Windows Store

MITSUBISHI ELECTRIC
Changes for the Better

Ventilation & Room Air Conditioning







Lossnay

The residential Lossnay range of Mechanical Ventilation with Heat Recovery (MVHR) units create an environment of constant clean and healthy air at home.

The Lossnay range are particularly suitable for modern homes with high insulation due to double glazing and cavity insulation, which require ventilation to remove stale air without major heat loss and ensure effective fresh air ventilation.

A domestic heat recovery ventilation unit is a heating system which replaces moist, stale air with fresh, filtered air.

SCAN THE QR CODE TO FIND OUT MORE ABOUT VENTILATION

MITSUBISHI ELECTRIC
Changes for the Better

We can create the perfect indoor environment for your home, whatever the weather. Our wall mounted Air-Conditioning units blend energy efficiency with a modern design.

The Mitsubishi Electric M Series range is the ideal solution, with a compact design and multiple colour options, our wall mounted units provide the aesthetic appeal that homeowners are looking for.

Combine this with low noise levels, ease of operation and energy-efficiency, and there is no better option for homeowners to stay cool during the summer and warm in winter. These are ideal for attic and garden rooms.

SCAN THE QR CODE TO FIND OUT MORE ABOUT ROOM AIR CONDITIONING



Start Your Heat Pump Journey Today.

Steps to Getting a Grant

Step 1: Assess Your Home's Suitability

Begin by evaluating whether your home is suitable for a heat pump. Modern homes (built from 2007 onwards) or those with good insulation are ideal. Get a BER (Building Energy Rating) assessment of your home to establish your home's energy performance.

Visit the Sustainable Energy Authority of Ireland's (SEAI) website to find a registered BER assessor to conduct a survey of your property and its energy features.

Step 2: Get Your Home Heat Pump Ready

If you're home was built pre-2007 and before applying for a heat pump system grant, you should engage an independent, SEAI Registered Technical Advisor. Your Technical Advisor will carry out a technical assessment of your home, and will advise you on what steps to take to make your home "heat pump ready", e.g. by insulating your home and/or by upgrading your windows.

If your home was built from 2007 onwards, it's likely to already meet the requirements for a heat pump. In most cases, you won't need a Technical Assessment and can apply through a simplified process.

Step 3: Research Available Grants

Visit the SEAI (Sustainable Energy Authority of Ireland) website to check current grants for heat pump installation. Homeowners may be eligible for significant financial support.

Currently, there are two grant options to get a heat pump.

1. If your house is heat pump ready you can apply for the Individual Heat Pump Grant, for installing just the heat pump right now. It is best suited to homes built after 2007 or if you've already upgraded the fabric of your home.

2. An SEAI registered One Stop Shop is the best option if you plan to carry out other upgrades along with installing a heat pump. One Stop Shops manage the project from start to finish, including the grant application.

Step 4: Find a SEAI Registered Contractor

When choosing your SEAI registered contractor, it's a good idea to talk to more than one installer. Be sure to get quotes and references from each of them.

Step 5: Apply for the Grant

Submit your grant application before any installation begins.

Choose between the Individual Heat Pump Grant (if your house is heat pump ready) or the SEAI registered One Stop Shop (if you are carrying out other upgrades along with installing a heat pump)

Step 6: Getting Your Heat Pump Installed and Commissioned

Your installer will talk you through the installation process and how long it take to upgrade your systems. Depending on the level of works being carried out, it may take 2-3 days, although they will minimise the length of time that the heating system is off.

Step 7: Submit Your Documents and Claim Your Grant

If you have applied for the individual heat pump grant, you have eight months to install your heat pump and carry out a post-works BER assessment. Then submit your completed grant documents to SEAI. The grant is paid directly into your bank account.

If you applied using a One Stop Shop and installed your heat pump as part of a major home energy upgrade, the One Stop Shop will manage all the paperwork. The grant will have been deducted from the cost of works upfront.

As of October 2026, eligible homeowners can avail of SEAI grant support of up to €14,500* when replacing an existing fossil-fuel heating system with a heat pump. This includes up to €12,500 towards the heat pump system and associated heating upgrades, plus €2,000 under the Government's new boiler scrappage scheme.

*Grant amounts and eligibility criteria apply and are subject to change. Visit the SEAI website for the latest information.

MITSUBISHI ELECTRIC
Changes for the Better

ecodan®
Renewable Heating Technology

ecodan®
Renewable Heating Technology

@MitsubishiElectricIreland

Mitsubishi Electric Ireland
Living Environmental Systems

Mitsubishi Electric Ireland Heating

©Mitsubishi Electric Europe 2025. Mitsubishi and Mitsubishi Electric are trademarks of Mitsubishi Electric Europe B.V. The company reserves the right to make any variation in technical specification to the equipment described, or to withdraw or replace products without prior notification or public announcement. Mitsubishi Electric is constantly developing and improving its products. All descriptions, illustrations, drawings and specifications in this publication present only general particulars and shall not form part of any contract. All goods are supplied subject to the Company's General Conditions of Sale, a copy of which is available on request. Third-party product and brand names may be trademarks or registered trademarks of their respective owners.

Note: Mitsubishi Electric air conditioning and heat pump systems may use different refrigerants depending on the product. Systems using R32 contain a fluorinated greenhouse gas. R32 has a GWP of 675 under Regulation (EU) No 517/2014 (IPCC Fourth Assessment Report). R410A GWP:2088. R290 (propane) is a non-fluorinated refrigerant and was previously assigned a GWP of 3 under the same regulatory framework. Under the current Regulation (EU) 2024/573, R290 has a GWP100 of 0.02, based on the IPCC Sixth Assessment Report.

Mitsubishi Electric Ireland.
Plunkett House, Grange Castle Business Park,
Nangor Road, Dublin 22
Telephone: (+353) 1 419 8800

web: les.mitsubishielectric.ie
email: sales.info@meir.mee.com

MITSUBISHI ELECTRIC
Changes for the Better

Air Conditioning | Chillers | IT Cooling | Heating | Ventilation | Controls | Services