



Home Energy Upgrades with Daikin



welcome renewable heat into your home

About Daikin

Daikin enjoys a worldwide reputation based on its more than 90 years of experience in manufacturing refrigerant and high-quality air conditioning systems for industrial, commercial and residential uses. The position of Daikin as a leading company in the manufacture of air conditioning and heating technology, compressors and refrigerant chemicals that are not harmful to the ozone layer, has led it to commit itself fully to environmental issues. For many years, Daikin has aimed to be a world leader in the supply of products that respect the environment. This challenge requires the design and ecological development of a wide range of products and an energy management system that includes the conservation of energy and the reduction of toxic waste.

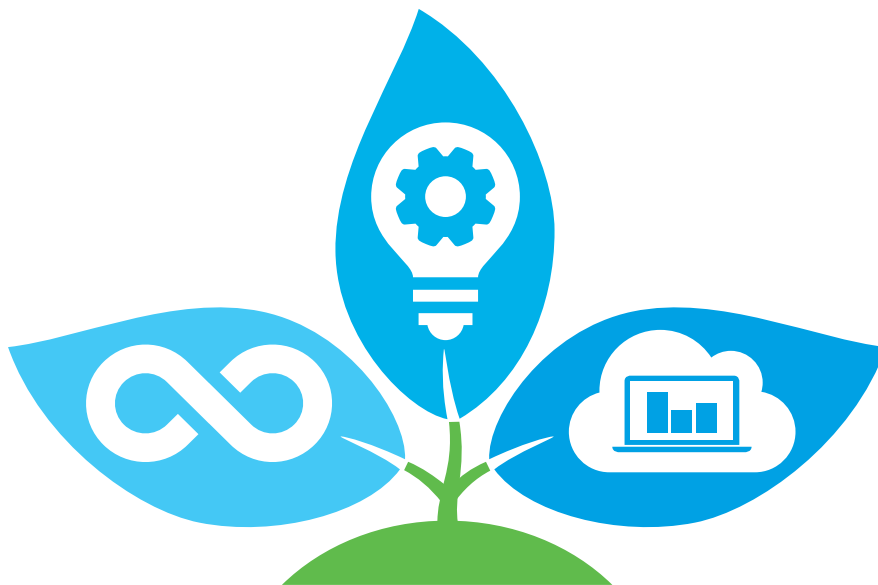
Daikin's core values are:

**Absolute
Credibility**

**Enterprising
Management**

**Harmonious
Personal
Relations**

Creating a sustainable future together



Sowing the seeds of climate protection with Daikin



Through a circular economy

- › Embrace Certified Reclaimed Refrigerant Allocation to reuse more refrigerant
- › Increase recovered refrigerant returns
- › Reuse refrigerant for maintenance with our refrigerant recycling machine



Through innovation

- › Equip our future ranges with the lower GWP refrigerant R-32
- › Offer high real-world seasonal efficiencies
- › Deploy unique auto cleaning filters to maximise efficiency 24/7



Through smart use

- › Rigorously follow up on energy consumption via the Daikin Cloud Service
- › Factor in experts' advice to continuously optimise system efficiency
- › Enable predictive maintenance to ensure optimum operation and uptime
- › Prevent energy waste with smart key cards and sensors



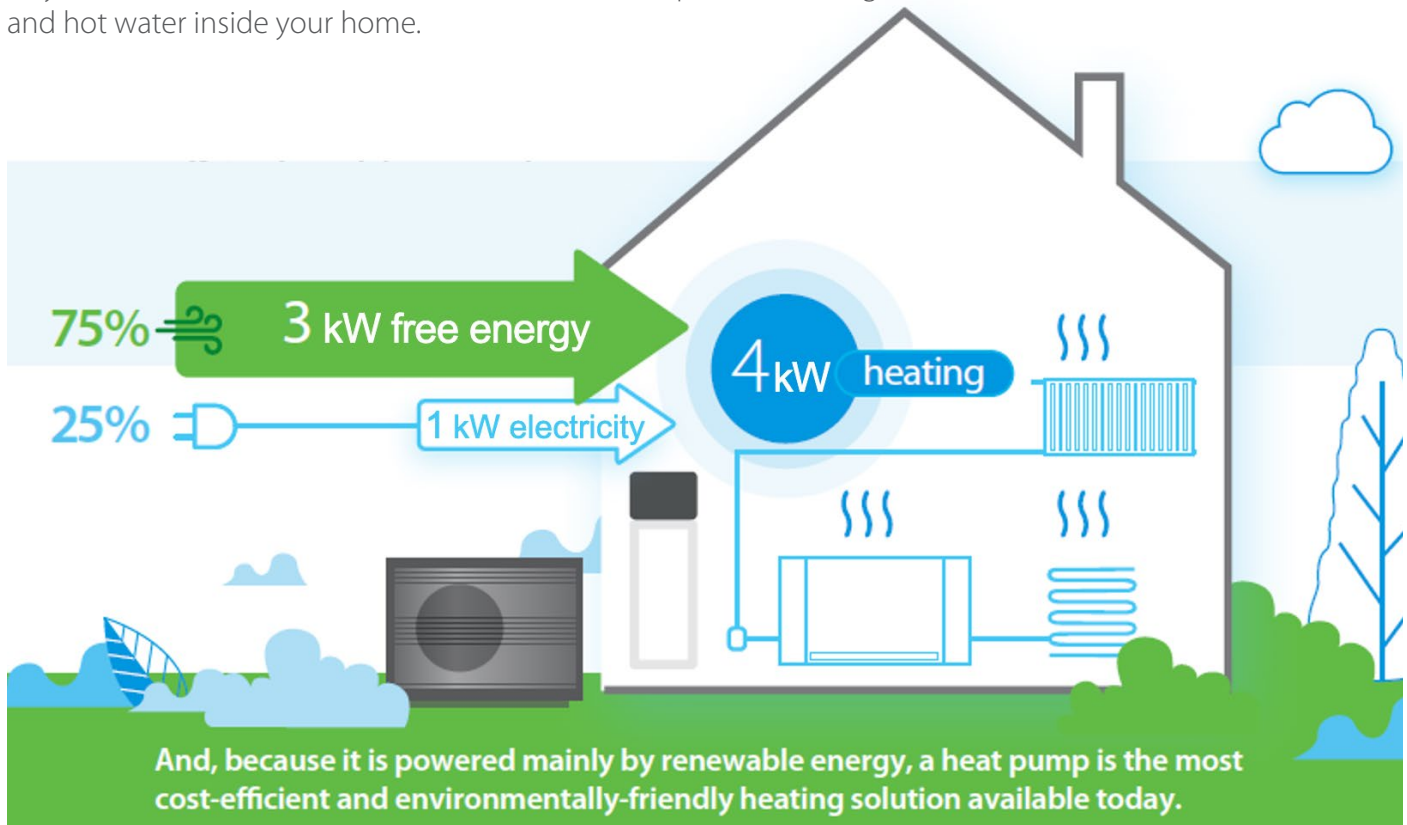
Scan to learn
more about
Daikin

All about heat pumps







A heat pump is an electrical device that extracts energy from one place and transfers it to another in the most efficient and sustainable way. It draws heat from the outside air and uses it to provide heating and hot water inside your home.



Scan to know more about heat pumps!



Why choose a Daikin heat pump?

-  Reduced heating bills
-  Comfortable room temperature
-  Continuous hot water
-  Improved air quality
-  Reduced carbon footprint
-  Easy to control



Daikin Home Energy Solutions



DAIKIN ALTHERMA 3 R REFRIGERANT SPLIT

Application: New builds & energy upgrades
Applicable floor areas: up to 235m²
Leaving water temperatures: up to 60°C
Tank Options: 180L/230L Integrated, up to 500L as a separate cylinder



DAIKIN ALTHERMA 3 H HYDROSPLIT

Application: New builds & energy upgrades
Applicable floor areas: 140 - 235m²
Leaving water temperatures: up to 60°C
Tank Options: 180L/230L Integrated, up to 500L as a separate cylinder



DAIKIN ALTHERMA 3 H HT HYDROSPLIT

Application: Energy upgrades
Applicable floor areas: up to 220m²
Leaving water temperatures: up to 70°C
Tank Options: 180L/230L Integrated, up to 500L as a separate cylinder

**Air-to-Water
High temperature
Hybrid**

Application: Energy upgrades
Applicable floor areas: up to 200m²
Leaving water temperatures: up to 70°C
Tank Options: 150, 200, 300L



DAIKIN ALTHERMA H GAS HYBRID

**Heating
Cooling
DHW**

Application: Energy upgrades
Applicable floor areas: varies
Tank Options: 90 or 120L



DAIKIN MULTI +



 Find out more about our products



Visit our virtual showroom



DAIKIN ALTHERMA 3 M MONOBLOC

Application: New builds & energy upgrades
Applicable floor areas: 130 - 220m²
Leaving water temperatures: up to 60°C
Tank Options: 150, 200, 300L

DAIKIN ALTHERMA M HW MONOBLOC



Application: New builds & energy upgrades
Applicable floor areas: N/A
Leaving water temperatures: up to 60°C
Tank Options: 200 or 260L

Air-to-Water
Low Temperature
Air-to-Air

If you have any questions in regards to selecting the right system for your home get in touch with us by emailing heating@daikin.ie

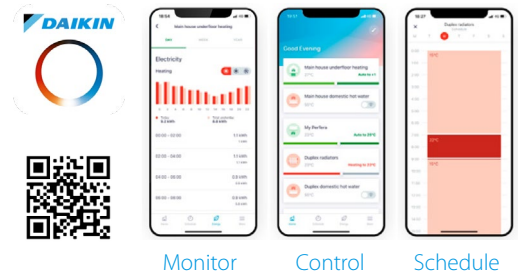
Madoka



User-friendly wired remote controller. Madoka combines refinement and simplicity.

- ✓ Intuitive touch button control with a premium design
- ✓ Compact unit measuring only 85 x 85 mm
- ✓ Easily set operation parameters

Daikin Onecta App



The Daikin Onecta App is for people who live their life on the go and want to manage their heating system from their smartphone.

- Monitor the status of your heating system
- Control the operation mode and set temperature
- Schedule the set temperature and operation mode
- Control your heating system with your voice

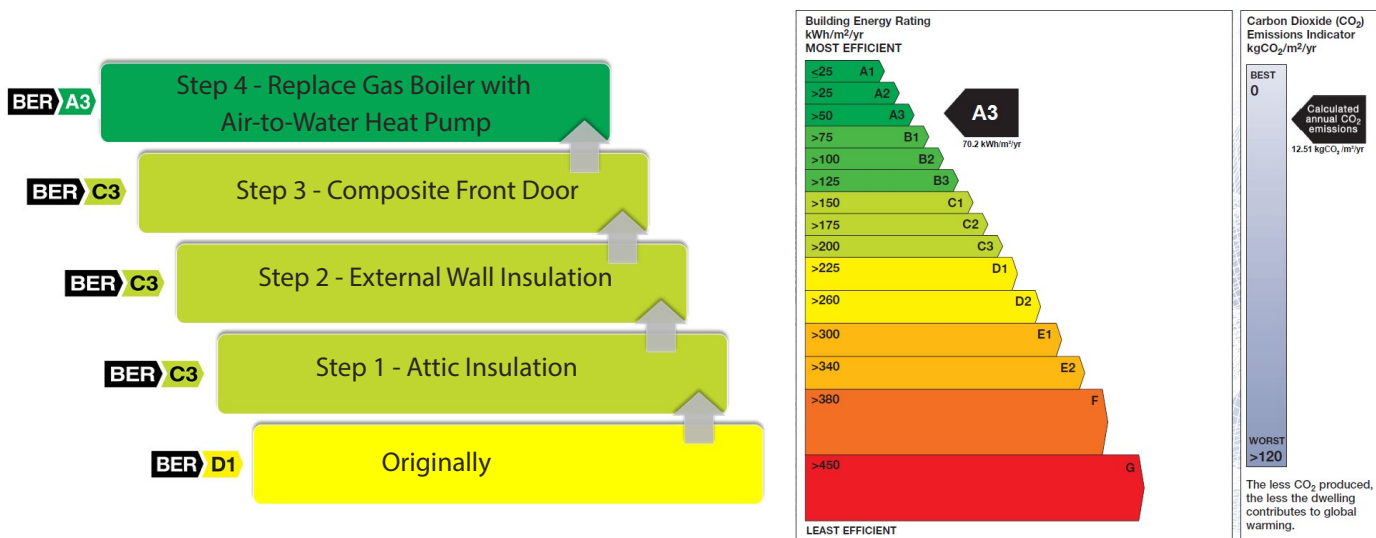
Highest energy label

Air-to-water heat pumps are among the most economical heating solutions. By relying on air to answer your heating, cooling and domestic hot water needs, the heat pump achieves the highest energy labels.



How do energy upgrades work ?

When carrying out home energy upgrades each action will independently improve your home's comfort level and BER rating but the compound effect of multiple upgrades is where the major gains are seen. The below diagram shows how individual fabric improvements will raise the BER rating from D1 to C3 but the installation of an air to water heat pump raises the rating from a C3 to a highly efficient A3.



Heating System Comparison

Once a home is heat pump ready, air to water heat pumps can save money and reduce carbon usage over traditional heating systems such as oil or gas boilers because of their low operating expenses and highly efficient design.

	Daikin Altherma low temperature heat pump	Oil Boiler	Gas Boiler
Annual heating CO ₂ emission*	1942 kg	3044 kg	2297 kg
Running cost/year*	€ 765	€ 994	€ 1461
Total life cycle cost (15 years)*	€ 11,462	€ 14,905	€ 21,920

*Based on a 130 m² semi-detached two-storey house. Standard domestic hot water usage. Electricity cost: 19 c/kWh; Gas cost: 10 c/kWh; Oil cost: 6.8 c/kWh Using the Daikin Altherma 3 R – 6 kW air-to-water heat pump. Running at 45°C temperature (low-temperature radiators).

So by using an air-to-water heat pump, you could save 26% and 62% more compared to an oil boiler and gas boiler respectively

Deep Retrofit Case Study

Pre-Works

House Type: 150m² two storey detached house
Heating: Gas
BER: D1
Annual Energy Costs: €3,600 (gas & electricity)

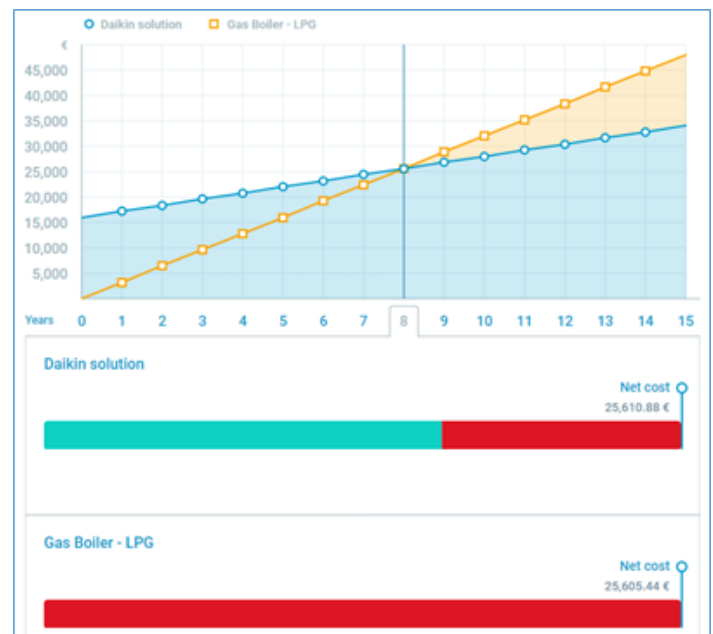


Upgrades

External wall & attic insulation
Triple glazed windows
Composite front door
Demand control ventilation
Daikin Altherma 3 air to water heat pump

Post Works

Heating: Air to water heat pump
BER: A3
New annual energy costs: €1,200 (electricity)



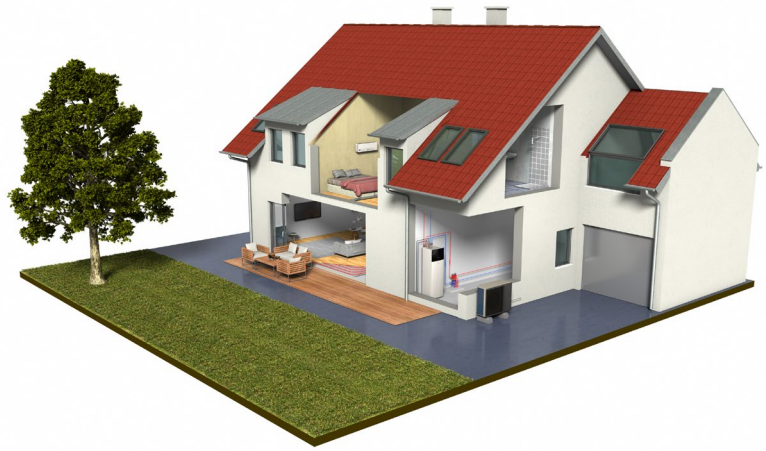
Retrofit Works **Running Costs**

"I will try to describe the benefits of living in a home with a heat pump as your main heating source. Gone are the days of the 'on, off', controls of a conventional boiler, it's always warm and cozy, it's the Goldilocks Effect, not too hot, not too cold but just right. We have to open the front door each morning before we know if it's cold or not outside. It actually takes a bit of getting used to, the comfort, I mean, constant heat and constant hot water, it's not what we grew up with. Comfort and ease of use aside, we also now only pay approximately a third of what we used to pay on utility bills. Would we recommend installing a heat pump? For us, after living with the system for over two years now, we would say that it's a no-brainer, sometimes you can buy happiness"

Homeowner Testimonial

Home Energy Upgrade Incentives

The new Home Energy Upgrade Incentives, launched in February 2022 offers increased grant levels of up to 50% of the cost of a typical B2 home energy upgrade with a heat pump (up from the previous level of 30-35%). The new One Stop Shop proposal will allow for surveying the home; selecting of upgrades; managing the grant process; helping with access to finance; engaging contractors to deliver the work; and quality assuring the work.



There are 2 pathways to access grant funding depending on the level of works you wish to carry out:

- **Individual Energy Upgrade:** Apply for single measure upgrades and manage the contractors and process yourself
- **One Stop Shops:** Designed for complete home energy upgrade, select an SEAI registered company who will manage the grants process and complete all works

Individual Energy Upgrade

Selection of grants for home energy upgrades

Part funded with SEAI grants

Up to 80% of the upgrade costs for a typical family homes

Homeowners Manage:

- contractor selection
- grant application
- contractor works
- follow up BER

Eligibility Criteria

- House must be built before 2011 for insulation & heating controls and before 2021 for heat pumps & renewable systems.
- Use a registered SEAI Technical Advisor to carry out the mandatory Technical Assessment of the dwelling, prior to grant approval.
- House must have a Heat Loss Indicator (HLI) of $\leq 2 \text{ W/K/m}^2$
- The Heat Pump System must satisfy the technical requirements specified by the scheme

One Stop Shop Service

Complete home energy upgrade solution

Part funded with SEAI grants

Approx. 50% of the costs for a typical family homes

One Stop Shops include:

- home energy assessment
- grant application
- project management
- contractor works
- follow up BER

Eligibility Criteria

- House must be built before 2011 for insulation & heating controls and for renewable systems grants.
- You need to make multiple energy upgrades to achieve a minimum rating of B2 on work completion.
- Use a registered One Stop Shop to manage the entire project on your behalf.

*also available to approved housing bodies

Grant Values

Measure	Detached	Semi-D / End Terrace	Mid Terrace	Apartment
Heat Pump System		€6,500		€4,500
Central Heating System for heat pump		€2,000		€1,000
Air-to-Air Heat Pump		€3,500		
Heating Controls Only		€700		
Bonus for reaching B2 with a heat pump		€2,000		
Attic Insulation	€1,500	€1,300	€1,200	€800
Rafter Insulation	€3,000	€3,000	€2,000	€1,500
Cavity Wall Insulation	€1,700	€1,200	€800	€700
External Wall Insulation	€8,000	€6,000	€3,500	€3000
Internal Wall Insulation	€4,500	€3,500	€2,000	€1,500
Window Upgrades	€4,000	€3,000	€1,800	€1,500
External Doors (max. 2)		€800 per door		
Floor Insulation		€3,500		
Solar PV		0 to 2kWp - €900/kWp 2 to 4kWp - €300/kWp		
Solar Hot Water		€1200		
Mechanical Ventilation		€1,500		
Air Tightness		€1,000		
Home Energy Assessment		€350		
Project Management	€2,000	€1,600	€1,200	€800
BER		€50		
Technical Assessment		€200		

Grants available under each pathway

Measure	Individual Energy Upgrade	One Stop Shop Service
Air-to-Water Heat Pump	✓	✓
Heating System Upgrade		✓
Air-to-Air Heat Pump	✓	✓
Heating Controls Only	✓	✓
Bonus for reaching B2 with a heat pump		✓
Attic Insulation	✓	✓
Rafter Insulation	✓	✓
Cavity Wall Insulation	✓	✓
External Wall Insulation	✓	✓
Internal Wall Insulation	✓	✓
Window Upgrades		✓
External Doors (max. 2)	✓	✓
Floor Insulation		✓
Solar PV	✓	✓
Mechanical Ventilation	✓	✓
Air Tightness	✓	✓
Home Energy Assessment		✓
Project Management		✓

On the next page you can find a summary of the grant application process. For more information on the grant process scan the QR or visit www.seai.ie/grants



Scan the QR or visit www.seai.ie for more information

If you require any support along your journey you can contact our Residential Engineering Team via heating@daikin.ie

Individual Energy Upgrade Application Process

1 Decide to improve your homes energy efficiency by retrofitting a Daikin Home Energy Solution

All homeowners, including landlords, whose homes were built and occupied before 2021 can apply. This is defined as the date your electricity meter was installed. This is different to other grant measures where the home must be built before 2011.

2 Choose a SEAI registered Technical Accessor

The accessor* will do a full assessment of the fabric of the house. They will issue a full report on the house and explain to you what to do to make it heat pump ready.

3 Choose a SEAI registered contractor

You need to put a contract for works in place with your chosen contractor before work begins. It is required that contractors have a written contract with homeowners for all energy upgrades undertaken under the grants programme.

4 Complete your grant application

You can apply using the Online Application platform. You will need your MPRN number which you will find on your electricity bill and the name of your SEAI registered contractor.

5 Complete the home energy upgrades

You have 8 months from the date of the grant offer to complete the works on your home and return the paperwork. You can find the expiry date in your offer letter. By this time, you need to have your work completed and get a registered BER assessor to complete your post-works BER assessment.

6 Receive your grant funding

You need to send your completed Declaration of Works form and Request For Payment form for payment for this scheme. These should be sent by email to info@betterenergyhomes.ie or by post.

* Technical advisor and BER assessor can be one person if qualified.

One Stop Shop Application Process

1 Contact One Stop Shop

Select a One Stop Shop from the SEAI registered list, discuss the possible energy upgrades for your home depending on when it was built and the current BER rating

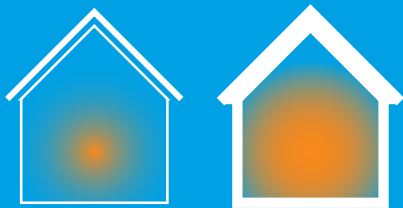
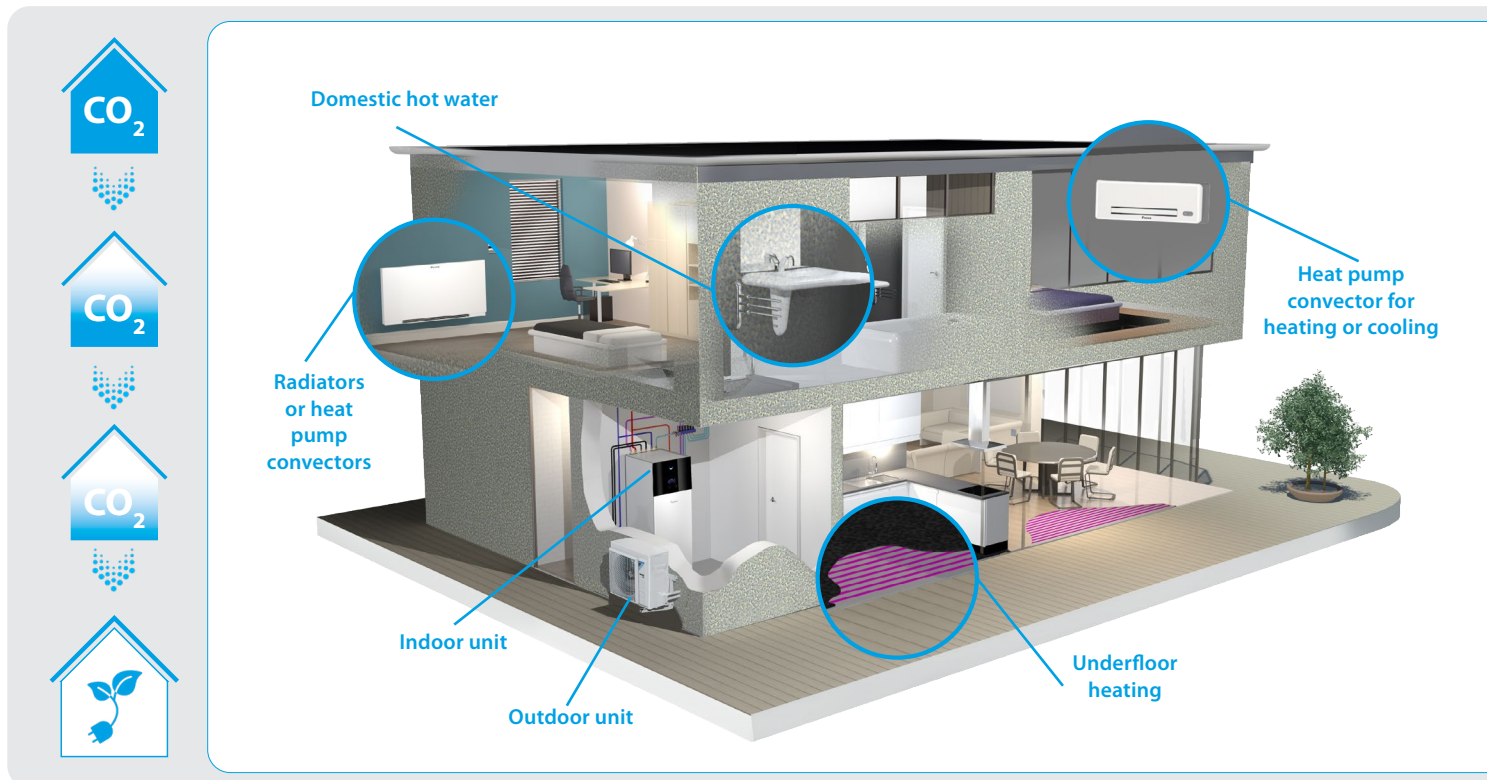
2 Home Energy Assessment

When you are ready to proceed a Technical Assessor will visit your home and carry out a detailed survey on building fabric, heat loss etc. Based on this survey the One Stop Shop will recommend the upgrades required to bring your home up to a minimum B2 BER, or higher if you so wish

3 Home Energy Upgrade

The One Stop Shop will manage all contractors and SEAI incentives, signing off on the overall project and billing you only for the balance net of all funding. The One Stop Shop will also provide you with finance options

Start the journey to decarbonize your home today



Step 1:

Improve the energy efficiency of your home by upgrading your insulation, windows & doors



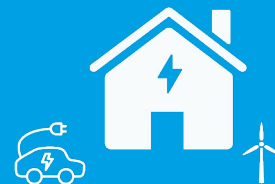
Step 2:

Electrify your heating with a Dakin solution, reduce your heating bills & increase your comfort level



Step 3:

Generate your own energy with solar or wind and reduce your overall consumption with smart meters



Step 4:

Decarbonise other aspects of your life, e.g. transport, home appliances and make the most of renewable energy

After Sales Support



STAND BY ME



After installation, your Daikin approved installer will register your system on Daikin's own – "Stand By Me" platform and provide you with your 5-digit commissioning code. This is where you'll find your warranty information, Daikin models and service partner details.



Free warranty extension

The first advantage of Stand By Me is a free warranty extension.



Service/Maintenance Reminders

Receive annual reminders that your heat pump service is due in the coming weeks.

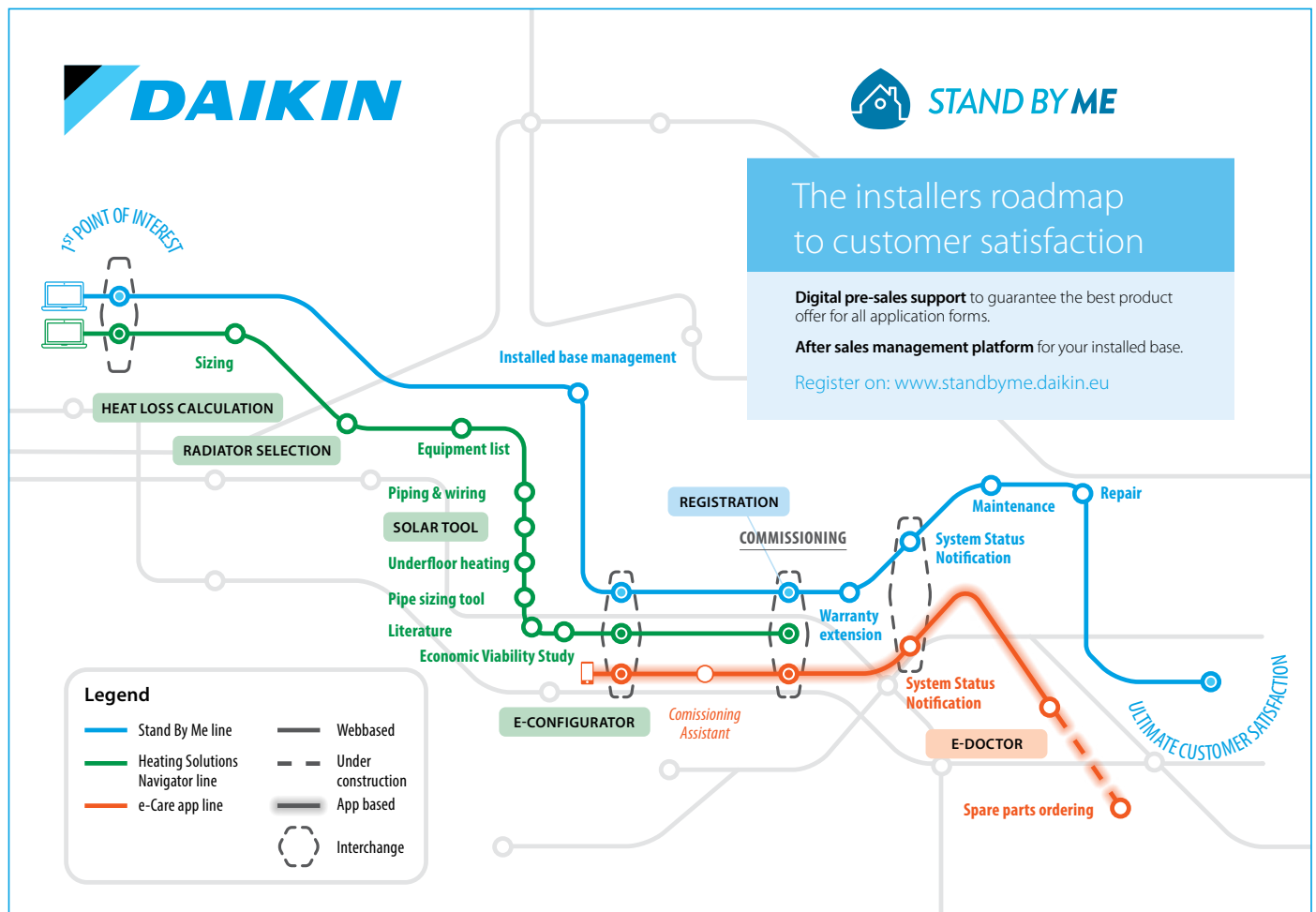


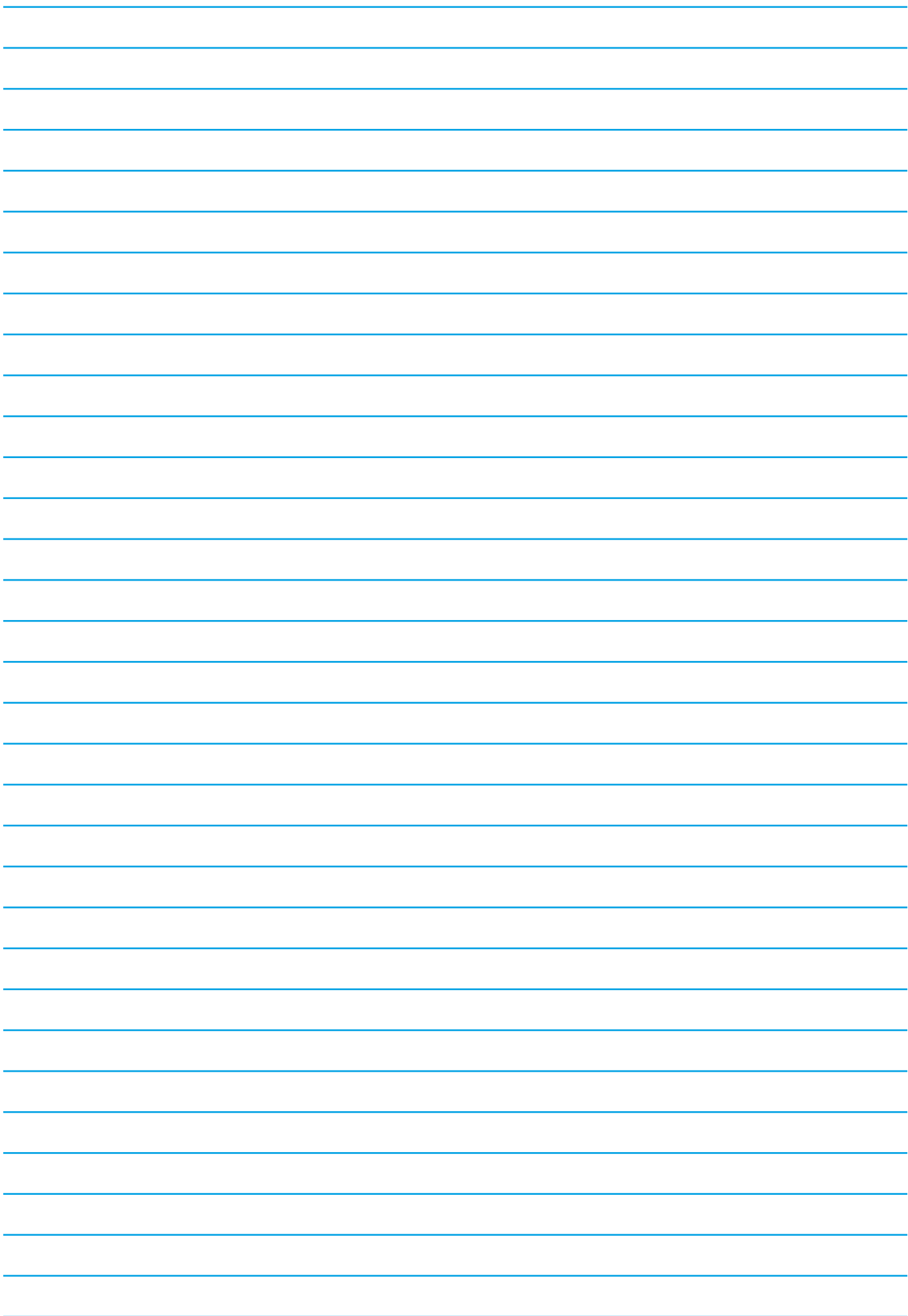
Extended warranty on parts

Purchase additional extended warranty on your heat pump for ultimate peace of mind.

www.standbyme.daikin.eu

Stand By Me roadmap overview





Frequently Asked Questions (FAQs)

What are the benefits of investing in a heat pump ?

- Save money on your bills by improving the energy efficiency of your home
- Reduce your household energy bills to just one bill that can be balanced evenly throughout the year
- No more fossil fuels in your home ensuring better air quality & lower carbon emissions
- Enjoy a warm and comfortable feeling in your home

What type of heating system works best with a heat pump ?

- Underfloor heating works great with heat pumps as it operates at a low temperature, this is ideal in new homes, or if you have an existing house with underfloor heating, installing a heat pump couldn't be easier.
- Radiators also work great with heat pumps. In an existing home, it's important to carry out an assessment on the radiators to make sure they are sized correctly and will heat your rooms when run at a lower temperature. Some radiators may need to be upgraded to ensure the output required to heat the room can be achieved. We can do this assessment for you to ensure peace of mind with your new heat pump system.

How do I control my heat pump system ?

The best way to control your heat pump is to allow it to run for long periods of time to maintain a consistent temperature in your home. This is usually done by setting your desired temperature on room thermostats on the ground & first floor. The hot water is fully managed through the settings on the heat pump & will ensure you always have hot water when needed. In other words, once your new heat pump system is installed & commissioned you really don't need to make any changes to it.

How do I choose the best heat pump system for my house ?

When considering upgrading your heating system with a heat pump you will need to speak to a professional. Your local building merchant can put you in touch with trained Daikin installers in your area. The installer will carry out a survey of your home to get an understanding of your existing heating system and then recommend which type of model will best suit your home. Our technical team is always available to assist with any queries you may have.

What maintenance is required for my new heat pump ?

As with all heating systems, your heat pump must be serviced annually. An annual maintenance;

- Ensures your system is always running at optimal conditions
- Helps prevent breakdowns
- Extends the systems life cycle
- Provides peace of mind by protecting your warranty

How well do heat pumps work in Ireland ?

Ireland climate is perfect for heat pumps as we have mild ambient temperatures all year round, with only short cold snaps in winter. All of our Altherma 3 heat pumps are design to operate down to -25° , while still producing up to 60°C in your system. So a Daikin heat pump really is a great choice for your home in Ireland.



DAIKIN

for support at any stage of your home energy upgrade journey
email heating@daikin.ie, visit www.daikin.ie or call **01 6423430**