



Comfort all year round

Heating and cooling solutions
for your home



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Whatever the size of your home, whether it is a new build or a renovation, we have systems which will provide you with the ideal climate. A licensed Daikin installer can advise you about which heating system will have the longest service life and lowest energy costs. They can also tell you which system provides the best combination of comfort and environmental responsibility. In this guide, you will find information about the heat pump, the most efficient system for indoor comfort. This gentle, yet cutting-edge technology will provide you with the indoor climate you want while minimising impact on the environment.



Why choose Daikin?


Comfort

- ✓ We offer a **wide range of products** and always provide you with the ideal solution for your home
- ✓ Our units create your ideal indoor climate **without noise disruption**

Control

- ✓ Our expertise makes life easier for you, allowing you to control your system via a **smartphone app** or a user-friendly remote control

Energy Efficiency

- ✓ As an **environmentally responsible** company, we are dedicated to being part of a healthy ecosystem
- ✓ Our products are designed to be **highly efficient** all year round
- ✓ Our products' low energy consumption means **lower energy bills** for you reaching the highest energy efficiency levels 
- ✓ Our heat pumps meet stricter European standards for measuring energy efficiency, also known as **seasonal efficiency**



Reliability

- ✓ Our products are renowned for their reliability. And you can rely on Daikin **service** to match

Heat pumps, the solution for those with an eye to the future

A heat pump is a system designed to extract and transport heat, allowing you to maintain constant indoor temperature all year round. For complete comfort, Daikin Altherma units can also provide you hot water.

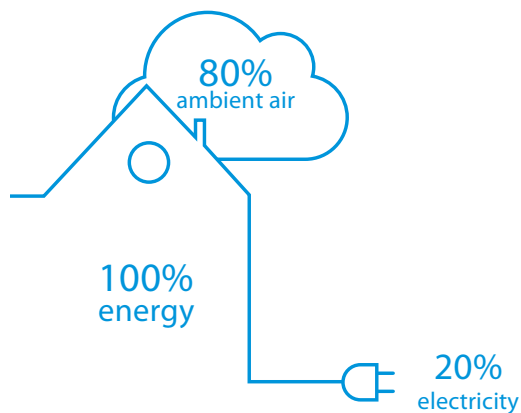
A renewable resource

Heating mode

Heat pumps extract heat from the outside air, even in cold weather. They use an electrically powered compressor and are extremely effective at heating a flat or a house. Daikin heat pumps are silent and discreet, and use state-of-the-art technology to keep your energy bills as low as possible. With a Daikin heat pump, 80% of the energy used to heat your home comes from the outside air, a free and infinitely renewable resource!

Cooling mode

For cooling, the system is reversed, extracting heat from the indoor air.

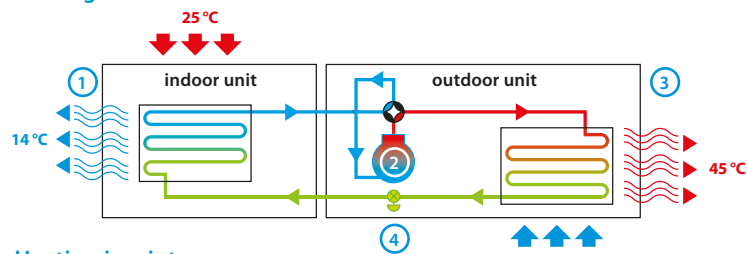


A continuous cycle

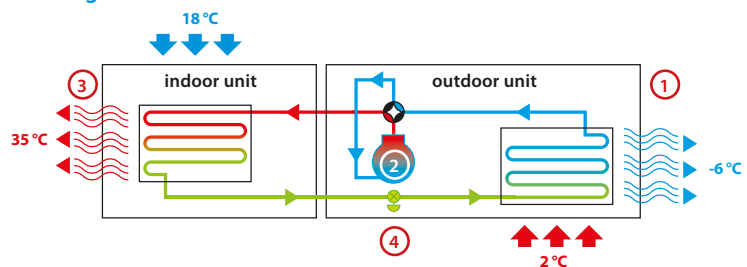
A refrigerant cycle is the process of transferring heat from inside and outside the home.

- > The evaporator changes the refrigerant from a liquid to gas to extract heat from the outdoor air.
- > The electric compressor condenses the gas, which raises its temperature.
- > The condenser helps the refrigerant transfer heat to the heating system before returning to a liquid state.
- > The expansion valve lowers the pressure of the refrigerant, triggering the start of a new cycle.

Cooling in summer



Heating in winter





1. Heating

In winter, the refrigerant circulating in the system captures heat from the outside air and releases it indoors in the form of gentle warming.

2. Hot water for domestic use

Some heat pumps, such as Daikin Altherma, also allow you to enjoy the year-round benefits of hot water for your entire household!

3. Cooling

During the summer, the system is reversible: the refrigerant in the circuit absorbs heat from a room and vents it outdoors.

4. Connectivity

Always in control, control your climate from any place, at any time with your smartphone.

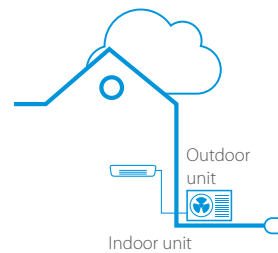
From renewable to combustion technologies

With its state-of-the-art technology, Daikin can always offer the most efficient products in its range

1. Air to air heat pump

An air to air heat pump extracts the heat from the outside air and then releases it as warm air inside your living space. During summer, this process is reversed: the heat indoors is removed and transported outdoors. This system guarantees you a constant temperature all year round.

For more detailed information, please go to page 12.



Pair combination: a system for one space, where one indoor unit is connected to one outdoor unit.

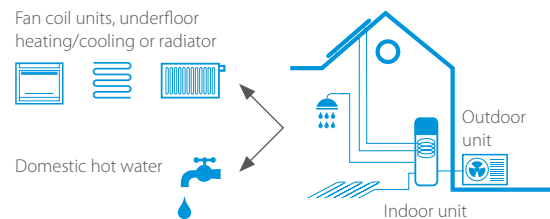


Multi combination: the basic system is the same as in a pair combination. The only difference is that up to 9 indoor units can be connected to it. If your needs change, the system evolves as well. Additional indoor units can, in fact, be installed at more than one go.

2. Air to water heat pump

An air to water heat pump also extracts heat from the outside air. This system transfers the heat indoors through a water circuit. An air to water heat pump can also meet your domestic hot water needs and, if needed, can provide pleasant coolness in the summer. This system offers a stable room temperature all year round.

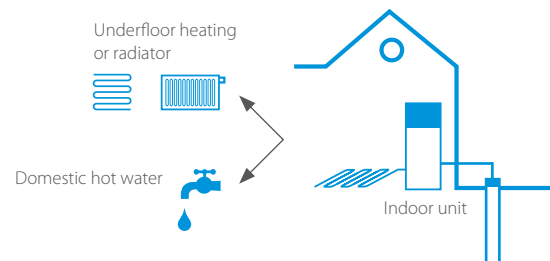
For more detailed information, please go to page 24.



3. Ground to water - geothermal heat pump

A ground to water heat pump extracts heat from the ground. The principle behind geothermal heating is extracting heat from the ground and converting it to the heat we use for heating a home. The advantage of geothermal heating is that the energy extracted does not depend on the sun or wind, and that it is the most constant.

For more detailed information, please go to page 32.



4. Hybrid heat pump

A hybrid heat pump combines air to water heat pump technology with gas condensing technology by searching for the most economical condition depending on the specific operation conditions.

Hybrid Multi: A combination of a multi-split system and hybrid heat pump, the Hybrid Multi is a total solution for combining air conditioning with hot water. Compatible with our range of split units, radiators and underfloor heating, the Hybrid Multi is your smart solution for heating, cooling and domestic hot water for year-round climate comfort.

For more detailed information, please go to page 28.

NEW 5. Gas condensing boiler

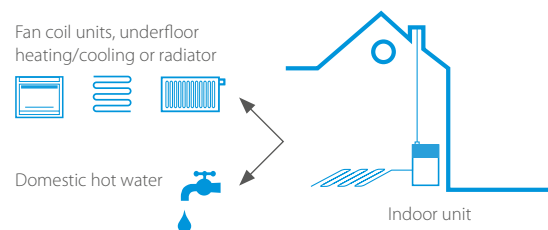
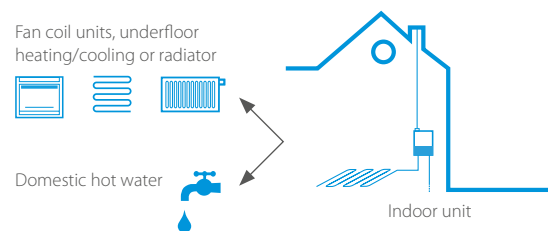
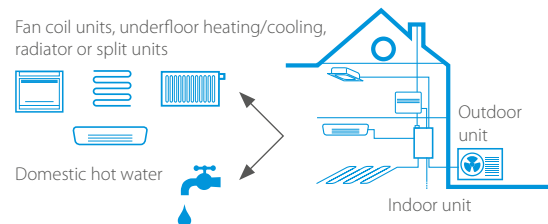
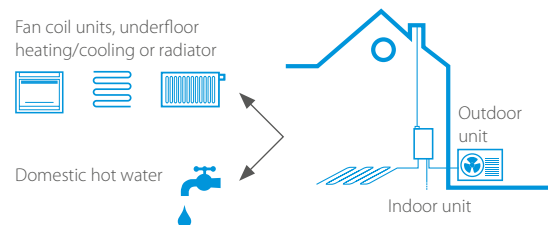
A gas condensing boiler generates heat by burning gas. To maximise combustion, it recovers heat from the water vapour produced by the exhaust gases, and this is used to pre-heat the incoming water, thus reducing the amount of energy used.

For more detailed information, please go to page 36.

NEW 6. Oil condensing boiler

An oil condensing boiler generates heat by burning oil. To maximise combustion, it recovers heat from the water vapour produced by the exhaust gases, and this is used to pre-heat the incoming water, thus reducing the amount of energy used.

For more detailed information, please go to page 37.



Always in control

Control your climate from any place, at any time

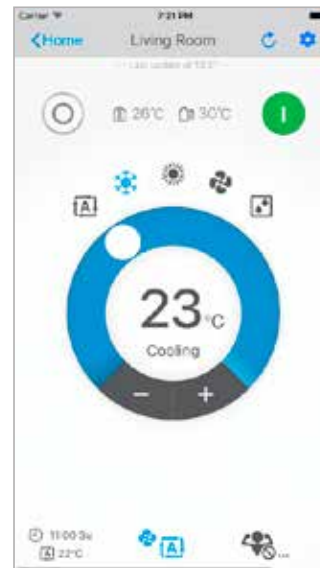
Daikin Online Controller

Simply connect your unit to Wi-Fi and download the app to change the thermostat, set temperature schedules and review your energy consumption. Compatible with our split range and heating solutions, the Daikin Online Controller is ideal for year-round climate control.



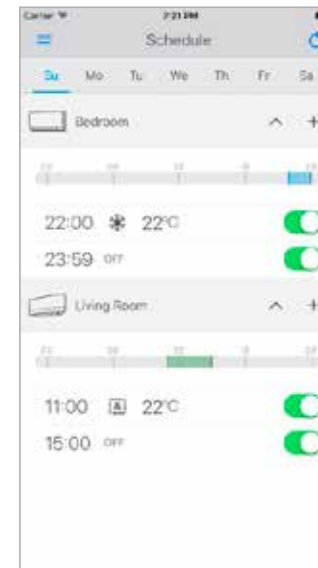
Your home

This screen provides you with an overview of your home. From here you can access all of the features and can centrally control up to 50 units at once.



Individual rooms

Adjust the temperature, operating mode, air purification and fans for individual rooms with the interactive thermostat.



Time scheduling

Create different schedules with up to 6 actions a day for 7 days and activate specific operation modes.

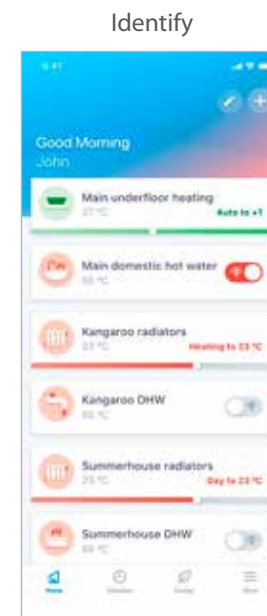
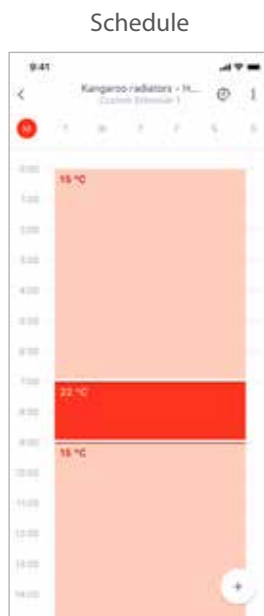


Energy usage

Icons help you see where you can save.

Daikin Residential Controller

The Daikin Residential Controller application can, from any place at any time, control and monitor the status of your heating system and allows you to (*):



Monitor

- The status of your system
- > Room temperature
- > Requested room temperature
- > Operation mode

Energy consumption graphs (day, week, month)

Schedule

- Schedule the room temperature and operation mode with up to 6 actions per day for 7 days
- > Enable **holiday mode**
- > View in intuitive mode

Control

- Operation mode
- > Change the requested room temperature
- > Change the requested domestic hot water temperature
- > Powerful mode (fast heating domestic hot water)

*Availability of functions is depending on the system type, onfiguration and operation mode. App functionality is only available if both the Daikin system and the App have Internet connectivity.



BLUEEVOLUTION range

Thinking beyond today

From 2025 on, the European F-gas regulation prescribes the use of refrigerants with a GWP below 750 for all pair split air conditioner installations with a refrigerant charge below 3kg. R-410A (GWP 2087.5) will remain available for other applications and service.

Daikin first introduced R-32 in 2012. Its low GWP of 675, competitive energy efficiency, safety and affordability make it very attractive. From 2016 Daikin offers you a unique Bluevolution range of pair and multi units that once again sets the benchmark for residential air conditioning. An intelligent and fresh design combines leading efficiency values with top comfort features.

Which system should you choose?

What is the best solution for you?

- › The best solution for you is one which matches your requirements perfectly and is designed specifically for your house
- › Whether you are building a new house or renovating an old farm, Daikin offers specific solutions which optimise efficiency, depending on the size and layout
- › Combining heating, cooling, domestic hot water, with or without solar energy, anything is possible
- › A licensed Daikin installer will help you to make the right choice

For new homes or large renovations

1. You want to heat or cool a particular space quickly

Daikin recommends:
for heating and cooling: **Daikin air to air heat pump** (page 12)
for heating, cooling and hot water: **Daikin Altherma hybrid heat pump + multi** (page 28)

2. You want to work with underfloor heating and/or low temperature radiators/convectors

Daikin recommends:
for heating, cooling and hot water: **Daikin Altherma low temperature** (page 24)
for heating and hot water: **Daikin Altherma ground source heat pump** (page 32)

For replacement and/or optimisation of an existing system

1. You want to heat or cool a certain space quickly

Daikin recommends:
for heating and cooling: **Daikin air to air heat pump** (page 12)
for heating, cooling and hot water: **Daikin Altherma hybrid heat pump + multi** (page 28)

2. You want to replace your heating oil boiler but wish to keep your existing radiators

Daikin recommends:
for heating and hot water: **Daikin Altherma high temperature** (page 26)
or Daikin Altherma ground source heat pump (page 32)

3. You want to replace your gas boiler but wish to keep your existing radiators

Daikin recommends:
for heating, cooling and hot water: **Daikin Altherma hybrid heat pump** (page 28)
for heating and hot water: **Daikin gas condensing boiler** (page 36)

4. You only want domestic hot water

Daikin recommends:
for hot water: **Daikin domestic hot water heat pump** (page 34)

Daikin air to air heat pumps

Air conditioning redefined: get into the comfort zone with our stylish units, wide range of models and easy control via app



Ururu Sarara, the best of the best

A new level of sophistication in air conditioning with five air treatment techniques which provide a total comfort solution.



Stylish, where innovation meets creativity

Available in white, silver, black and blackwood, Stylish brings together excellent design and technology to deliver an award winning climate solution for any interior.

Guaranteed operation down to -25 °C



Daikin Emura, form and function redesigned

This award-winning European design unit is available in two stylish finishes, silver and anthracite or pure matt white.



Perfera, attractive, wall mounted design with perfect indoor air quality

The enhanced design of Perfera offers a boost in energy efficiency and lower running costs.

Guaranteed operation down to -25 °C



Invisible concealed ceiling unit

Keep things clean and uncluttered with a concealed ceiling unit. They are compact enough to fit any interior and can be installed discreetly so that only the air vents are visible.



Floor standing unit

Low enough to be installed beneath a window sill, the unit can be installed against the wall or recessed. It has whisper-quiet operation and distributes the air and temperature efficiently throughout the room.

Guaranteed operation down to -25 °C



Ururu Sarara

The best of the best



Why choose Ururu Sarara?

The Daikin Ururu Sarara brings a new level of sophisticated control to air conditioning. It has five air treatment techniques which together provide a total comfort solution. In addition, the Ururu Sarara range has SEER and SCOP A+++ ratings thanks to its energy efficient compressor and heat exchanger. Because of its innovative technology, as well as its design, it won the prestigious Red Dot design award in 2013. The Ururu Sarara can easily be controlled via a smartphone app or a user friendly remote controller.

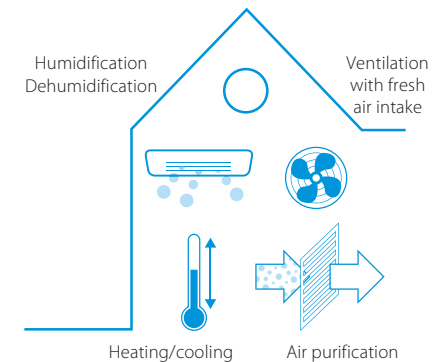


reddot design award
winner 2013

✓ Comfort

5 air treatment techniques


1. Heating and cooling in one unit, for year-round comfort with the highest energy label available
2. In winter, the **Ururu** function replenishes the moisture in the air to maintain a comfortable feel without unnecessary heating
3. In summer, the **Sarara** function removes excess moisture while maintaining an even temperature thus eliminating the need for extra cooling
4. Ventilation for fresh air even with closed windows
5. Air purification and automatic filter cleaning, for non-stop purified and allergy-free air





Ventilation and air purification


Unlike a conventional air conditioner, the Ururu Sarara brings fresh, conditioned air into the room at the desired temperature without any thermal loss. The unit's self-cleaning filter collects dirt and particles from the air, which not only keeps your air clean but keeps the Ururu Sarara performing at top efficiency. Daikin's Flash Streamer technology makes sure that the air is automatically purified and odour-free.



Flash Streamer releases streams of high-speed electrons with strong oxidation power

Pre-filter catches dust

Deodorising filter absorbs and breaks down odours before the air is returned into the room



✓ Energy efficiency

Up to
A+++
in cooling

Up to
A+++
in heating

✓ Reliability

BLUEVOLUTION

Higher energy efficiency and lower environmental impact with R-32 refrigerant



Stylish

Designed for comfort

stylish

Most consumers today are looking for an air conditioning system that combines the best of performance and design. With Stylish, Daikin balances function and aesthetic to create an innovative product that suits any interior.

Why choose Stylish?

Stylish brings together excellent design and technology to deliver a total climate solution for any interior. Measuring only 189 mm, Stylish is the thinnest unit on the market in the design segment for wall mounted units and uses innovative features to achieve the best in comfort, energy efficiency, reliability and control.



reddot design award
winner 2018



**GOOD DESIGN
AWARD 2017**



**DESIGN
AWARD
2018**

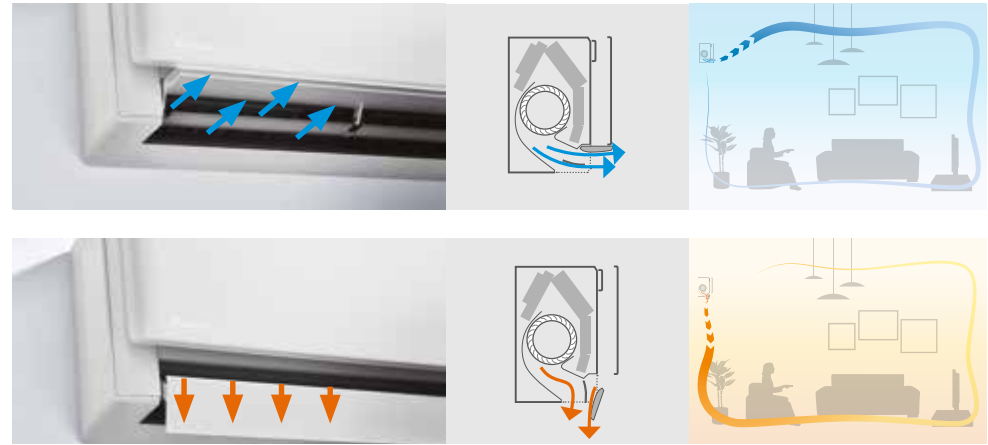
Design

Award-winning design

Inspired by its predecessors, Daikin Emura and Ururu Sarara, Stylish earned the Good Design Award and iF Award for its innovative look and functional capabilities. These awards recognise Stylish for its ability to achieve new standards of comfort and energy efficiency in the HVAC-R industry.

Stylish design benefits

- › Users can choose from four distinct colours (white, silver, black and blackwood)
- › Curved corners create an unobtrusive and space-saving design
- › Thin dimensions make it the most compact design unit on the market



✓ Comfort

Intelligent and efficient design

- › Coanda effect optimises room temperature distribution
- › Improved fan offers high-efficiency with low sound levels down to 19 dBA
- › Perfect indoor air quality: the flash streamer captures viruses and allergens leaving you with a more clean indoor environment
- › The fireplace logic keeps the fan running to have an even temperature throughout the room when another heating device (e.g. fireplace or oven) is in operation (FTXTA-AW only)

The Coanda effect

Already present in the Uuru Sarara, the **Coanda effect** optimises the airflow for a comfortable climate. By using specially designed flaps, a more focused airflow allows a better temperature distribution throughout the whole room.

How it works

Stylish determines the airflow pattern based on whether the room needs heating or cooling. When Stylish is in heating mode, two flaps will direct air downward (vertical airflow), while in cooling mode the flaps will move air upward (ceiling airflow).

By creating two different airflow patterns, Stylish prevents draughts and establishes a more stable and comfortable room temperature for occupants.

✓ Energy efficiency

Up to
A+++
in cooling

Up to
A+++
in heating

✓ Reliability

BLUEVOLUTION

Higher energy efficiency and lower environmental impact with R-32 refrigerant

**Optimised heating range available:
capacities guaranteed down to -25 °C**



Daikin Emura

Form. Function. Redesigned.



Why choose Daikin Emura?

- › Top design with two stylish finishes, silver and anthracite or pure matt white
- › High seasonal efficiencies up to A+++
- › Whisper quiet sound levels as low as 19 decibels
- › Control via a smartphone app or a user friendly remote controller

✓ Design

The Daikin Emura is the result of ongoing research into creating superior air conditioning solutions for European interiors. The new generation's extra functions make it even more suitable for European homes. This has been confirmed by the fact that the Daikin Emura is the winner of the prestigious iF Design Award, Reddot design award 2014, German Design Award - Special Mention, Focus Open 2014 Silver and Good Design Award 2014.



reddot award 2014
winner



GOOD DESIGN
AWARD 2014



Focus Open 2014
Silver



German
Design Award
SPECIAL
MENTION 2015



DESIGN
AWARD
2015

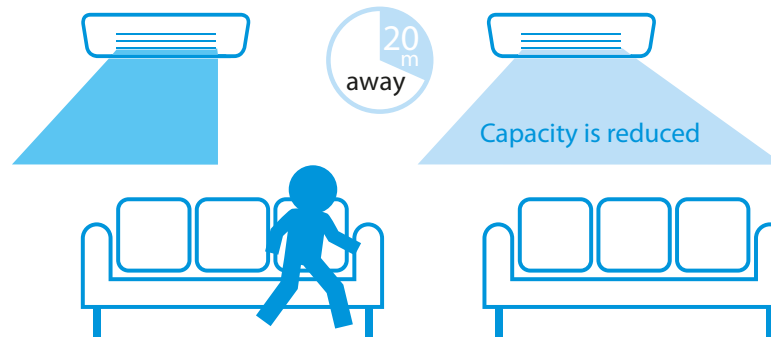


✓ Comfort

2-area intelligent eye

The two-area intelligent eye sensor controls comfort in two ways. If the room is empty for 20 minutes, it changes the set point to start saving energy.

As soon as someone enters the room, it immediately returns to the original setting. The intelligent eye also directs air flow away from people in the room to avoid cold draughts.



✓ Energy efficiency

Up to
A+++
in cooling

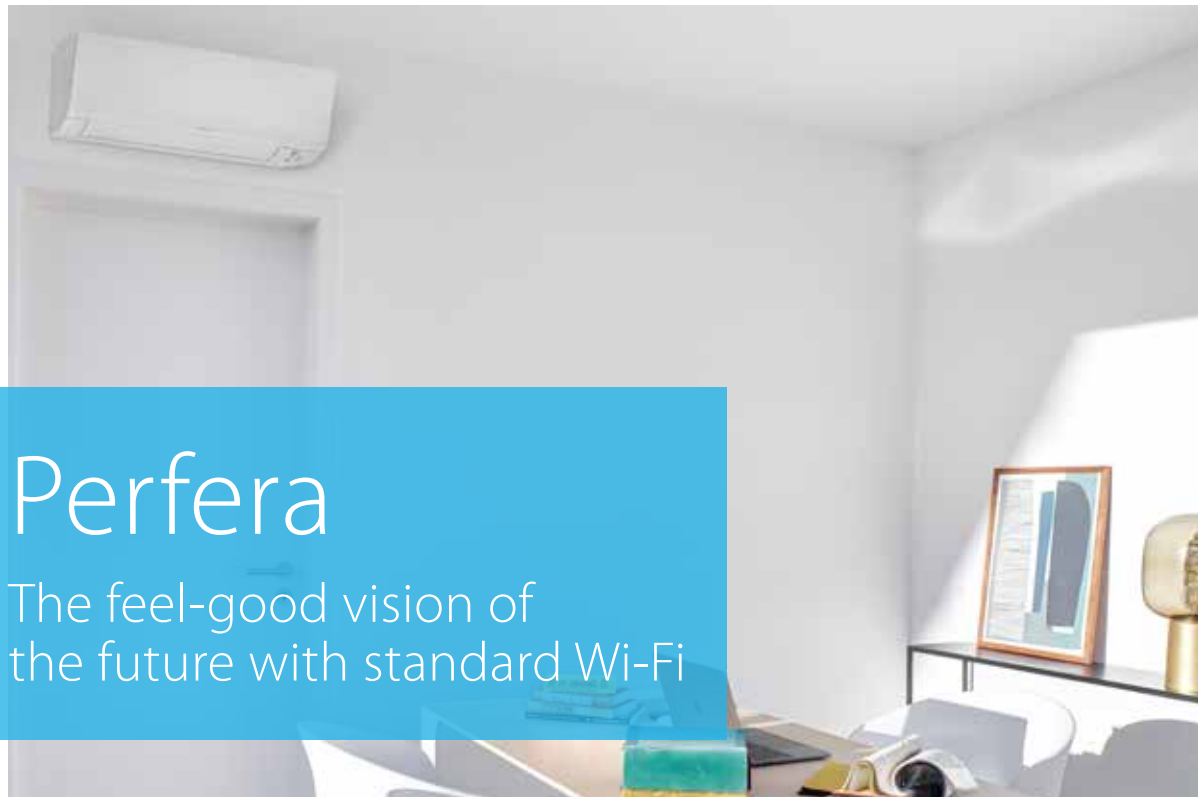
Up to
A++
in heating

✓ Reliability

BLUEVOLUTION

Higher energy efficiency and lower environmental impact with R-32 refrigerant

**Optimised heating range available:
capacities guaranteed down to -25 °C**



Perfera

The feel-good vision of the future with standard Wi-Fi



Why choose Perfera?

The enhanced design of the Perfera FTXM-N offers a boost in energy efficiency over previous models. This gives it best-in-class performance, with seasonal efficiency values to A+++ and lower running costs.

✓ Comfort

Performance is guaranteed in all climate conditions. 3-D air flow and 2-area motion detection sensor create perfect and non-invasive air flow.

The fireplace logic keeps the fan running to have an even temperature throughout the room when another heating device (e.g. fireplace or oven) is in operation (FTXTM-N only).



Better air quality with the Daikin Flash Streamer

This all-in-one heating and cooling unit purifies the air all year round. Using electrons to trigger chemical reactions with air molecules, the flash streamer captures moulds, viruses and allergens, leaving you with a cleaner indoor environment.



✓ Energy efficiency

Up to
A+++
in cooling

Up to
A++
in heating

✓ Reliability

BLUEEVOLUTION

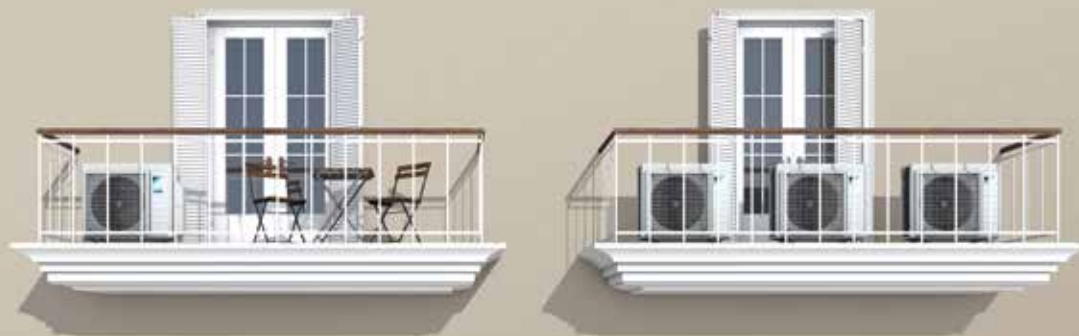
Higher energy efficiency and lower environmental impact with R-32 refrigerant

Optimised heating range available:
capacities guaranteed down to -25 °C

Daikin Multi Solutions

Heating and cooling different spaces with one outdoor unit

A Daikin multi split system offers you unexpected possibilities in creating a comfortable and cosy home.



✓ Comfort

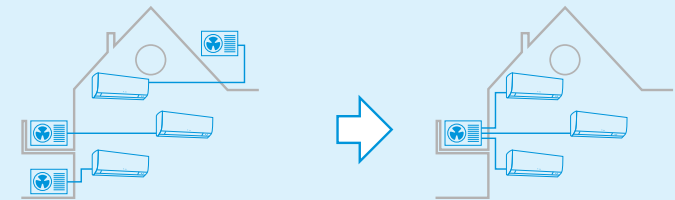
Less mounting space, less visibility, less noise

With a multi outdoor unit, you only have to find space to mount one unit on the façade of your house, so it's much easier to place it subtly and out of sight. What's more, as there's only one unit in operation, noise levels are dramatically lower than with multiple units.

Easier installation, wiring, piping and maintenance

By installing a single outdoor unit, you not only save on mounting equipment, wiring and drain piping, you also save time and thus installation costs. Having a single unit reduces the unlikely event of a technical problem even further.

Pair split or multi split combination – the direct system comparison



Conventional pair split installation for air-conditioning three rooms

Solution for the same situation with only one multi split outdoor unit

More flexibility: connect up to 5 indoor units of any style

One outdoor unit can run up to five indoor units, and each of those can be controlled separately. You also have a wider choice of units from our split and Sky Air series, as well as low capacity indoor units which are specially designed for small rooms. If you think you may need an additional indoor unit later on, simply choose a higher capacity outdoor unit and your system is future-proof.

✓ Energy Efficiency

Lower power consumption, high efficiency

Daikin Bluevolution technology combines our high efficiency compressors with R-32, the refrigerant of the future. These large compressors are more efficient than a number of smaller compressors with the same output, and their standby mode saves you a significant amount of energy.

Optimised for heating



Designed for living: solutions for even the coldest regions

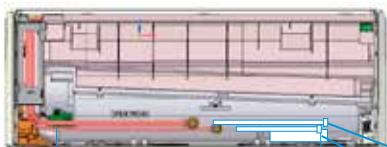
Designed for colder climates, Optimised Heating 4 creates a comfortable interior environment while maintaining excellent energy efficiency ratings.

✓ Reliability

To guarantee the seamless operation of your heating system, even in temperatures as low as -25 °C, the Optimised Heating 4 range offers enhanced features.

Easy Installation: long piping

The Daikin Optimised 4 offers a quick and easy installation process, which includes extended piping: This longer piping is specifically adapted to accommodate the thicker walls of Scandinavian buildings, and help contractors cut down on installation time.



Model	Extended piping
Stylish FTXTA30	+155 mm
Perfera FTXTM30	+180 mm
Perfera FTXTM40	+160 mm
Comfora FTXTP25-35	+180 mm

50 cm

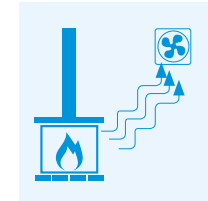
Extended auxiliary piping
Extended drain hose

✓ Comfort

The fireplace scenario

Stylish FTXTA and Perfera FTXTM are flexible and easy to adapt for any room, including spaces that contain additional heat sources, such as a fireplace.

- › If the temperature in the room reaches the desired point set by user, the operation FIREPLACE LOGIC (if activated) will start automatically
- › The unit will distribute hot air from the external source across the room using the unit's fan
- › The fan speed and the intensity of distribution depends on difference between temperature set by user and actual temperature in the room (in case of big difference between these temperatures the air distribution will be more intensive)



Measured temperature in the room \geq set temperature
= Thermo off Fan auto adjust according to ΔT

Dual Airflow

Our floor standing FVXM is ideal for heating comfort thanks to its dual airflow. Wide air flow coverage in both upward and downward directions allowing even air distribution.

During heating operating, your feet stay warm and the temperature through the room is evenly distributed. Maximum comfort will be ensured.



✓ Efficiency

Bluevolution Range

BLUEEVOLUTION

Type	Model	Product Name	25	30	35	40
Wall mounted	Stylish: Where innovation meets creativity, even at ambient temperatures down to -25 °C	FTXTA-AW 	*	A ⁺ (pair only)		
Wall mounted	Perfera: Discreet, modern design for optimal efficiency and comfort thanks to 2- area motion detector sensor	FTXTM-M 	*	A ⁺ (pair only)	*	A ⁺ (pair only)
Wall mounted	Comfora: Wall mounted unit, providing high efficiency and comfort while reducing the environmental impact	FTXTP-K3 	A ⁺ (pair only)	*	A ⁺ (pair only)	
Floor Standing Unit	Floor standing unit for optimal heating comfort thanks to dual airflow	FVXM-F ₆ 	A ⁺ (pair only)	*	A ⁺ (pair only)	

* Space heating - average climate

Daikin Altherma 3 R / H low temperature

BLUEVOLUTION



reddot design award
winner 2018



Energy efficient heating, cooling and hot water solution for new builds and low-energy houses

✓ Comfort

Heating

Heat pumps extract existing heat from the air, which makes heating your home an energy efficient process

Cooling

Powered by renewable energy sources, heat pumps cool your home without consuming large amounts of energy

Hot water

With one heat pump system, Daikin Altherma low temperature uses renewable energy to supply enough hot water for six showers

Connectivity

Always in control, control your heating system from any place, at any time

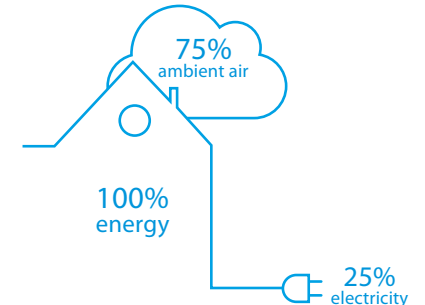
✓ Energy efficiency

A+++

Powered by renewable energy

By extracting renewable energy from the air, our Daikin Altherma low temperature heats, cools and provides you with hot water in a sustainable way.

- › Powered by **75%** renewable energy extracted from the air and **25%** electricity
- › Achieves up to **A+++** energy efficiency label for heating
- › Optional solar support can produce up to **70%** of the energy that your heat pump and boiler needs



✓ Reliability

- › Flexible solutions: split floor standing, split wall mounted and monobloc unit
- › Uses the ECH₂O principle* to provide superior water sanitation
- › Incorporates advanced technologies and frost protection features to prevent ice buildup



Daikin Altherma 3 low temperature offers a wide range to adapt to your needs

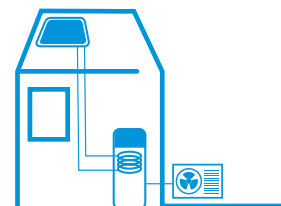
- › **Best seasonal efficiencies providing the highest savings on running costs**
- › **Perfect fit for new builds, as well as for low-energy houses**



Floor-standing unit with integrated domestic hot water tank

Compact and yet 100% comfort guaranteed

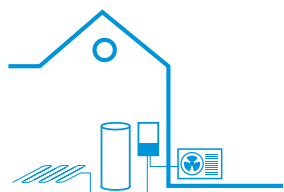
- › All components and connections are factory mounted
- › Very small installation footprint required (only 0.36 m²)
- › Minimum electrical input with constantly available hot water
- › Cooling option
- › Bi-zone option: two temperature zones automatically regulated by the same indoor unit



Integrated ECH₂O

Maximising renewable energy with top comfort for hot water preparation

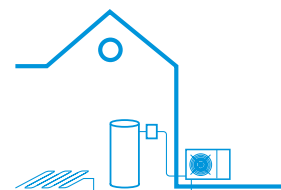
- › Solar support for domestic hot water
- › Lightweight plastic tank
- › Bivalent option: can be combined with a secondary heat source
- › App control available



Wall mounted unit

High flexibility for installation and domestic hot water connection

- › Compact unit with small installation space (almost no side clearance is required)
- › Can be combined with a separate domestic hot water tank of up to 500 litres, with or without solar support



Monobloc outdoor unit

Ideal when indoor space is limited

- › Compact monobloc for space heating and cooling with optional domestic hot water
- › Fuss-free installation: only water and electricity connections are required
- › Frost protection features ensure reliable operation down to -25 °C (outside temperatures)

ECH₂O

domestic hot
water comfort

Domestic hot water plays an important part in achieving the ultimate comfort at home. With Daikin's ECH₂O range of thermal stores, you can rely on almost instantaneous domestic hot water at any time. Easy to install and energy efficient, the ECH₂O range maintains high standards of water sanitation and safety.

- › **The fresh water principle:** Domestic hot water production on demand means fresh water at all times, while simultaneously preventing the risk of contamination and sedimentation
- › **Optimum domestic hot water performance:** The slow temperature evolution avoids sudden temperature drops and allows excellent flow from the taps
- › **Fit for the future:** It can be integrated with renewable solar energy and other heat sources, e.g. fireplace or existing boiler
- › **Flexible installation options:** Lightweight, robust and easy to handle, combined with accessible connection to a series of heat pumps working as one (easy cascade)

Daikin Altherma 3 H HT high temperature split



Designed to withstand the coldest climate conditions



Aside from the acoustic comfort, design is a decisive point nowadays. Specific attention was paid to making the outdoor unit blend in with your home.

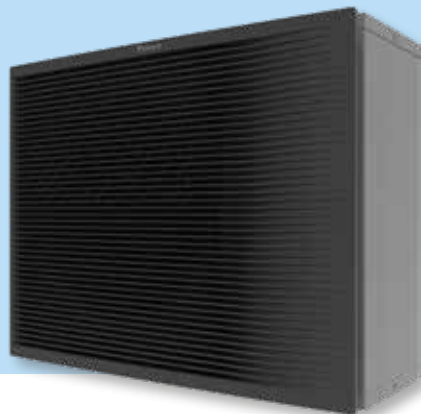
The black front grill stretches horizontally making the fan inside invisible. The mat grey casing reflects the colour of the wall behind for more discretion. This unit received the IF and redden design awards 2019.



reddot design award
winner 2019



DESIGN
AWARD
2019



Made in Europe, for Europe

European weather can be tough sometimes. That's why we designed the Daikin Altherma 3 H HT to work in "heat pump" mode only down to -28 °C outside temperature.

Heating capacities are also maintained down to -15 °C outside temperature. This performance is achieved thanks to genuine Daikin technology.

As the market leader, Daikin is always striving to make the most reliable and efficient heat pumps possible. Daikin developed the Bluevolution technology to achieve higher and greener performance. This technology is now part of all new products such as the Daikin Altherma 3 H HT.

The Daikin Altherma 3 H HT is the first Daikin outdoor unit with a distinctive design. Its single fan reduces the noise level and its black front grill makes the unit fit into any environment.

All these dedicated components were specially developed in-house to make the Daikin Altherma 3 H HT unique.

Superior performance, renewable energy use, design and acoustic comfort.


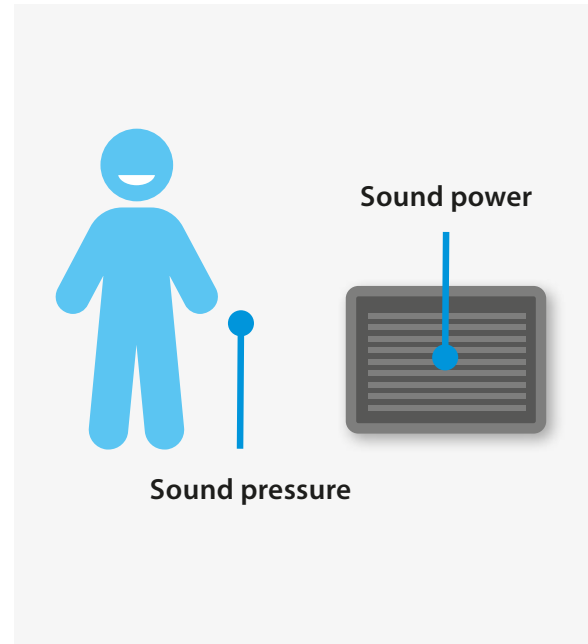
This is what the Quintessence of heat pump is all about.

BLUEvolution

The Bluevolution technology combines a specifically developed compressor and the R-32 refrigerant. Daikin is the first company in the world to launch heat pumps equipped with R-32. With a lower Global Warming Potential (GWP), the R-32 is equivalent in power to standard refrigerants, but achieves higher energy efficiency and lower CO₂ emissions.

Easy to recover and reuse, R-32 is the perfect solution for attaining the new European CO₂ emission targets.

R-32



Listen to the silence of our outdoor unit
→ **Check out the video!**

Meeting modern society's expectations

Silence rhymes with comfort

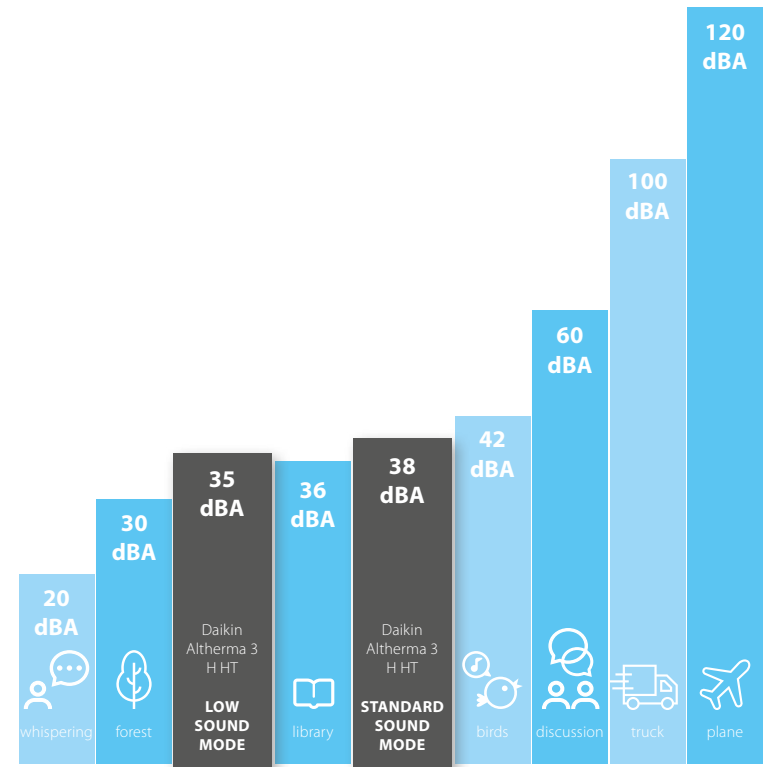
The Daikin Altherma 3 H HT has been designed to reduce its acoustic level and meet the expectations of today's society.

In standard sound mode, the unit produces a sound pressure of 38 dBA at 3 metres, so somewhere between birds chirping and the inside of a library. The Daikin Altherma 3 H HT also offers greater flexibility by having a low sound mode that reduces the sound pressure at 3 metres to 35 dBA, representing a real reduction of half the sound level!

The acoustic level can be evaluated in two ways

The **sound power** is generated by the unit itself, independently of distance and environment

- › The **sound pressure** is the sound perceived at a certain distance. The sound pressure is usually calculated at between 1 and 5 metres from the unit



Daikin Altherma R Hybrid heat pump

The Daikin Altherma R Hybrid is the ideal solution to replace your old gas boiler.



Heat pump outdoor unit



Heat pump indoor unit

✓ Comfort

Heating

A Daikin Altherma hybrid heat pump automatically determines the most economic and energy efficient heating combination

- › **Heat pump operation:** the best available technology for optimising running costs at moderate outdoor temperatures
- › **Hybrid operation:** both the gas boiler and heat pump operate simultaneously to deliver the ultimate comfort
- › **Gas operation:** when outdoor temperatures drastically drop, the unit will automatically switch to gas operation mode

Hot water

The gas condensing boiler's dual heat exchanger increases hot water efficiency by up to 15% when compared with traditional gas boilers

Cooling

Incorporate cooling for a total solution that integrates seamlessly with underfloor heating or radiators

Quick and easy installation

As the heat pump indoor unit and gas condensing boiler are delivered as separate units, they are easier to handle, operate and install

Investment benefits

- › Combines with existing radiators; reducing the cost and disruption of installations
- › Coverage of heat loads up to 27 kW makes this unit ideal for renovation applications
- › Possible to connect to photovoltaic solar panels to optimise self-consumption of the electricity produced

✓ Energy efficiency

The ideal combination

Depending on the outdoor temperature, energy prices and the internal heat load, the Daikin Altherma hybrid heat pump smartly chooses between the heat pump and/or the gas boiler, possibly in simultaneous operation, and always selects the most economic operation mode

Supported by renewable energy

When working in heat pump mode, the system is powered by renewable energy extracted from the air and can achieve up to **A++ energy efficiency**

Hot water produced with gas condensing technology

Unique dual heat exchanger increases efficiency up to 15% compared to traditional gas boilers

- › Cold tap water flows directly into the heat exchanger
- › Optimal and continuous condensing of the flue gases during domestic hot water preparation

✓ Reliability

- › Low investment cost with no need to replace existing piping and radiators
- › Low running costs for heating and domestic hot water
- › Compact dimensions
- › Ideal for renovation applications
- › Easy and fast installation

Daikin Altherma R Hybrid heat pump + multi

BLUEVOLUTION

The Daikin Altherma hybrid heat pump can also be combined with an air-to-air multi system to provide optimal cooling. Easily installed and managed via an app on a smartphone or tablet, the Daikin Altherma hybrid heat pump + multi is an all-in-one system for heating, cooling and hot water purposes.

Multi features

- ✓ Equipped with Bluevolution technology
- ✓ 3, 4 and 5 ports for multi outdoor units
- ✓ Combinable with different split indoor units:
 - › Daikin Emura
 - › Perfera FTXM
 - › FTXP
 - › FDXM
 - › FVXMOne port can be used for hot water production
- ✓ Control with Daikin Online Controller app



Daikin Altherma H Hybrid heat pump



Heat pump



H₂O

Condensing Boiler



More environmentally friendly

- › Reduced environmental impact thanks to the usage of **R-32 refrigerant**
- › Outdoor unit with **sealed refrigerant circuit**, which greatly reduces the risk of refrigerant leakage



Safety in every conditions

The unit can work down to -15 °C outside thanks to multiple freeze-up protections.

BLUEVOLUTION

The Bluevolution technology combines very high efficient compressors developed by Daikin with the future of refrigerants: R-32.



Flexible installation

Compact indoor unit can be installed in a cupboard.

Condensing technology

The condensing technology uses optimum fuel efficiency, with reduced emissions of NOx and CO, to ensure high cost savings and environmentally-friendly operation.

The hydrosplit concept,
the best of 2 worlds

Daikin Altherma 3 GEO ground source heat pump

The Daikin Altherma ground source heat pump uses stable geothermal energy and Daikin's inverter heat pump technology to deliver heating and hot water in all climates.



666 x 597 x 1891 mm

✓ Comfort

Quick and easy installation

- › Full integration of the heat pump module and factory-fitted domestic hot water tank reduces installation time
- › Pipework connections are placed on the top of the unit for accessibility
- › Lightweight unit is easy to transport and install

Compact design

- › No larger than an average household appliance, the unit's sleek design fits neatly in any standard room
- › Requires only 10 mm of side clearance

✓ Energy efficiency

A+++



35°C

Powered by **75% renewable energy** extracted from the ground and 25% electricity, our Daikin Altherma ground source heat pump provides heating and hot water with **A+++ energy efficiency**.

Equipped with our signature inverter technology

- Our Daikin inverter efficiently controls the unit's motor speed and reduces energy consumption by up to 30%. Rather than expending additional energy by starting and stopping, the inverter adjusts the speed of the motor so that it runs continuously and more efficiently in the long run.
- › Increases brine temperatures during partial load operation
 - › Reduces backup heater operation to a minimum
 - › Reaches high operating efficiencies during partial load operation

✓ Reliability

For new homes and large-scale renovations

By extracting energy from below the Earth's surface, ground source heat pumps are extremely reliable, even in the coldest climates. Ground temperatures remain fairly stable throughout the year, making it an ideal renewable energy source.

Reliable climate control

Ground source heat pumps horizontally and vertically extract renewable energy from the heat in the ground. The installation requires land area, but significantly reduces your carbon footprint and helps you save on energy costs in the long run.



Daikin Altherma R HW

domestic hot water heat pump

The split domestic hot water heat pump is the ideal replacement for an electric domestic hot water tank to provide semi-instantaneous hot water.

✓ Comfort

Fresh water principle

- › Domestic hot water production on demand means fresh water at all times
- › Minimum volume of stored domestic hot water prevents the risk of contamination and sedimentation

Easy installation

- › No water tank pressure and limited pressure in the heat exchanger
- › Low maintenance: no anode means no scale and lime deposits or corrosion
- › Compact and designed with additional controls for easy installation and maintenance

✓ Reliability

- › Electrical backup (2.5 kW) ensures hot water under all circumstances; the 500 l tank can also be equipped with an external hydraulic backup
- › The ECH₂O* thermal store is engineered to provide you with fresh, healthy and safe hot water
- › By just using the heat pump, the temperature of the water can reach up to 55 °C and its production is guaranteed down to -15 °C

*For more information, see page 25

✓ Energy efficiency

- › Heat pump extracts renewable energy from the outside air to produce hot water
- › Increase energy saving and efficiency by connecting the unit to solar panels



Daikin Altherma M HW

monobloc domestic hot water heat pump

The high performance monobloc domestic hot water heat pump is the newest addition to the Daikin water heater range. Enhanced hot water comfort with quiet operation, easy handling, flexibility of installation and different integration possibilities. Perfect for renovation and new build.

✓ High performance

- › Delivering high comfort hot water of temperatures up to 55 °C with the heat pump only
- › Among the most quiet with 53 dBA sound power and 36 dBA at 2 meters
- › High tapping rate L, XL for guaranteeing maximum domestic hot water flow
- › A+ seasonal energy efficiency

✓ Renewable power

- › Produces domestic hot water by extracting energy from the outside air
- › For the 260 liter an extra coil possibility exists for solar water heating
- › The monobloc can be standard connected to a PV installation severely minimizing running costs

✓ Easy to install and control

- › All components are built-in and ready to work
- › Compact sizes and low weight, which make it easily manoeuvrable through small doors and spaces
- › Easy connection, from top or side of the unit, maximizes placing possibilities
- › 3 easy operating modes, Eco – Auto – Boost, for your personal preferences

✓ Year-round reliability

- › Total thermal power up to 3.4 kW ensures optimal hot water comfort
- › Wide operation range: down to -7 °C outside temperature with the heat pump unit, and below -7 °C with electrical heating element support
- › Guaranteed optimal comfort by heat pump up to 38 °C outside temperature



Why choose a Daikin boiler?



reddot design award
winner 2018

Daikin's gas condensing boilers are the best option to replace your existing boiler with a more energy efficient and cost-saving alternative. Both the floor standing and the wall mounted boilers provide you with reliable performance and efficient heating and hot water.

✓ Comfort

Daikin's gas condensing boilers deliver the ultimate in comfort. Optimal heating ensures seamless operation to deliver reliable year-round heating, even in extreme weather conditions. Instant hot water is possible with our combi range, but also possible with a separate thermal store featuring the ECH₂O tank.

✓ Energy efficiency

Condensing technology
Using latent heat in the flue gas, our condensing technology achieves 107% more energy efficiency by using renewable energy to produce hot water.

✓ Reliability

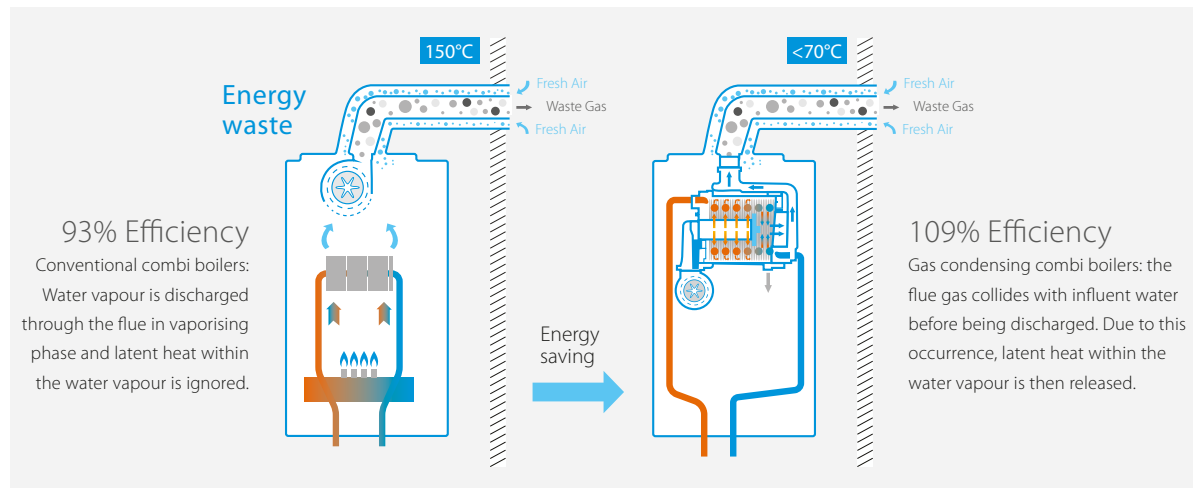
Easy installation and service
All parts are accessible from the front and are low maintenance due to the gas-adaptive combustion system Lambda Gx, a fully electronic gas-air combination. The Lambda Gx is compatible with wall mounted and floor standing units.



Daikin Altherma 3 C Gas W



Daikin Altherma C Gas ECH₂O



Our new oil condensing boiler is the ideal replacement of an old boiler.

✓ Comfort

With a footprint of only 0.42 m², the oil condensing boiler provides heat at all times, and can be connected to an ECH₂O thermal store to provide hot water.

✓ Energy efficiency

The oil condensing boiler adjusts its capacity easily to the required heat (modulation function), resulting in low running costs.

✓ Reliability

All products are tested and meet the criteria of the Ecodesign Directive. Perfectly matched in terms of their individual components, our complete systems provide both maximum convenience and the highest safety standards.



Daikin Altherma C Oil

DAIKIN ALTHERMA R HYBRID



FTXM-N



DAIKIN ALTHERMA C GAS ECH₂O





FTXA-BB



DAIKIN ALTHERMA 3 H HT



DAIKIN ALTHERMA 3 C GAS W



FTXZ-N



CONTROLS



Daikin, your contribution to the environment

When you choose a Daikin air conditioner, you are also thinking of the environment. When we produce your heat pumps, we do our utmost to recycle, reduce waste and use renewable energy. Besides that, Daikin avoids the use of lead, mercury, cadmium and other materials that are harmful to the environment.

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ECPEN20-001 01/20



Daikin Europe N.V. participates in the Eurovent Certified Performance programme for Liquid Chilling Packages and Hydronic Heat Pumps, Fan Coil Units and Variable Refrigerant Flow systems. Check ongoing validity of certificate: www.eurovent-certification.com



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