



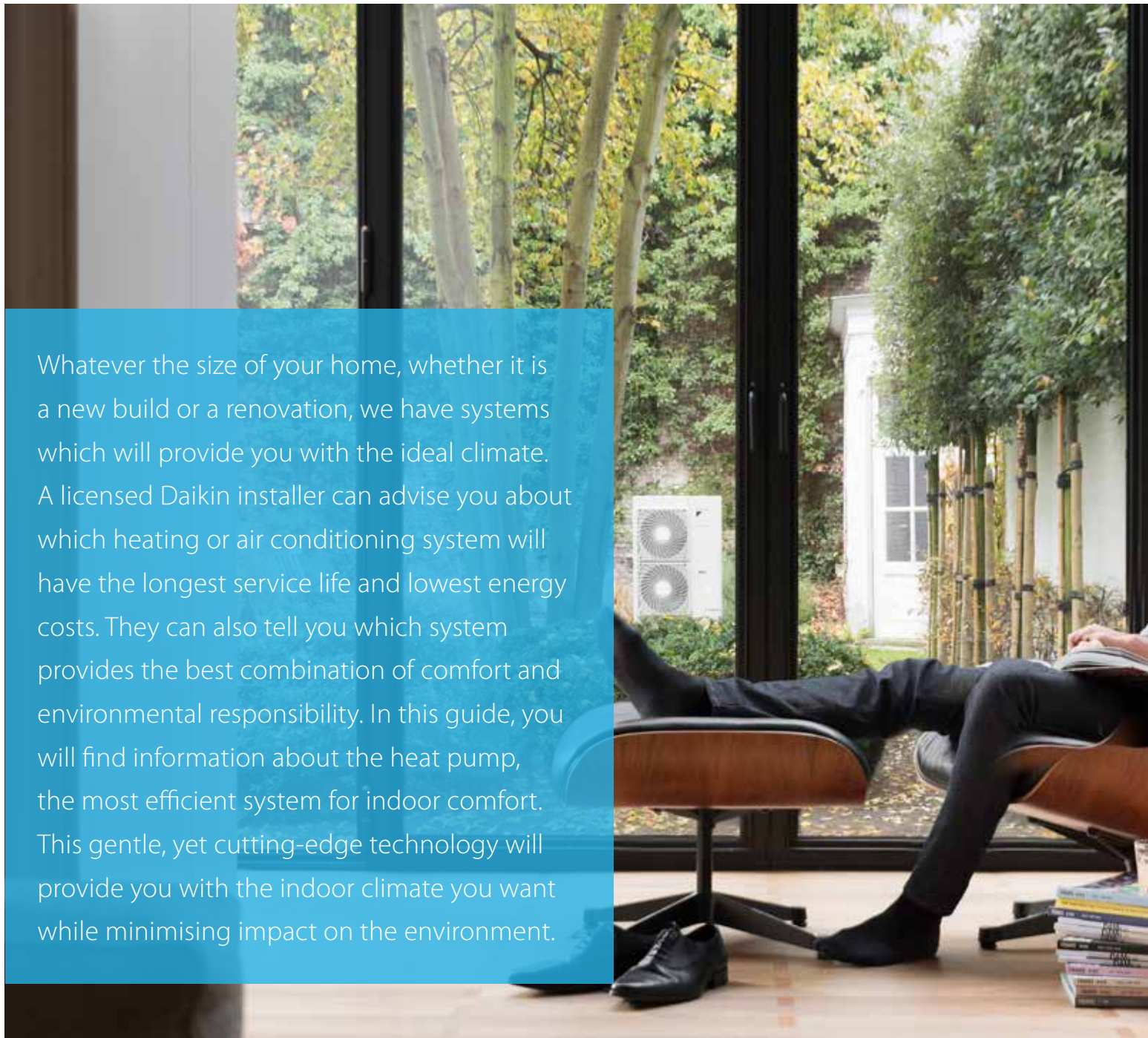
# Comfort all year round

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 or air conditioning 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 comfort through **intelligent sensors and airflow techniques** 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

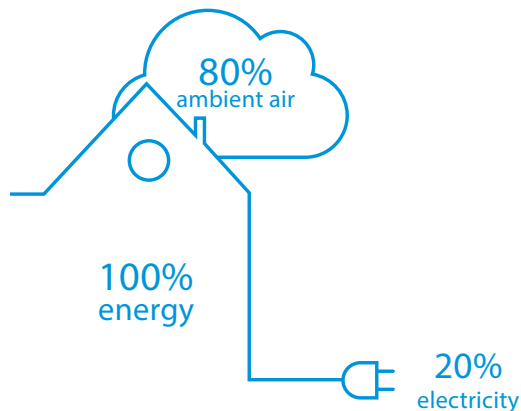
Heat pumps extract heat from the outside air, even in cold weather.

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.

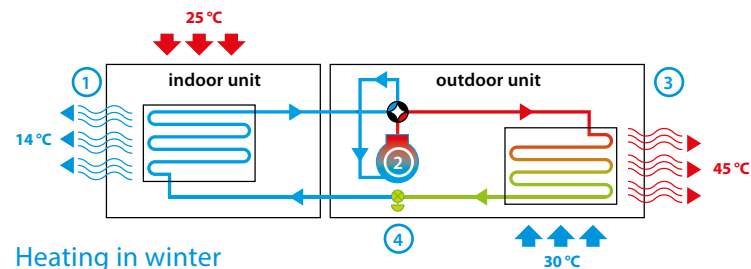


### A continuous cycle

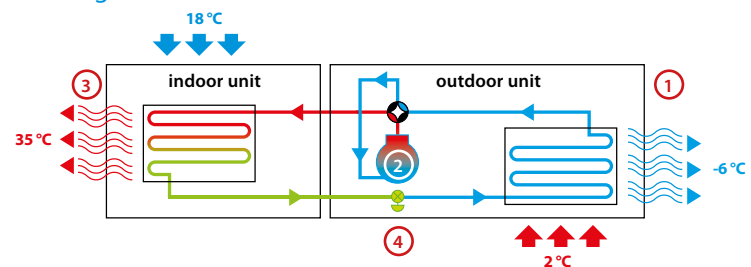
A refrigerant cycle is the process of transferring heat from inside and outside the home.

1. The evaporator changes the refrigerant from a liquid to gas to extract heat from the outdoor air.
2. The electric compressor compresses the gas, which raises its temperature.
3. The condenser exchanges the heat of the refrigerant with the ambient air and returns the refrigerant into a liquid
4. 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 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 transfers it outdoors.

## 4. Connectivity

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

## 5. Air purification

Add an air purifier to your air conditioning or heating system to create the perfect indoor air quality.

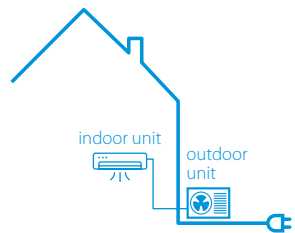
# A world of sustainable solutions

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

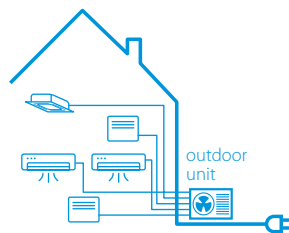
## 1. Air to air heat pump

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.



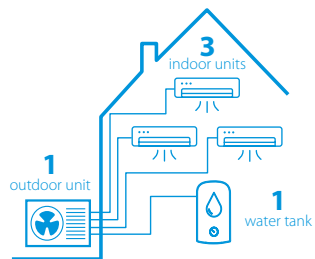
**Pair combination:** a system for one space, where one indoor unit is connected to one outdoor unit.



**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.

## 2. **NEW** Air to air heat pump with domestic hot water

A Daikin multi split system offers you unexpected possibilities in creating a comfortable and cosy home. This is your solution to reduce limitations like environmental impact and financial aspects.

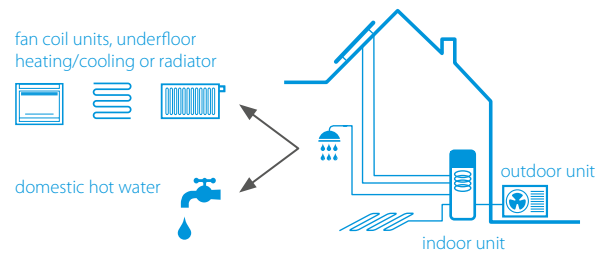


**NEW Multi+ for cooling, heating and hot water**  
Connect Multi+ outdoor unit with up to 3 indoor units and a 90 l or 120 l tank to provide domestic hot water

## 3. 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.

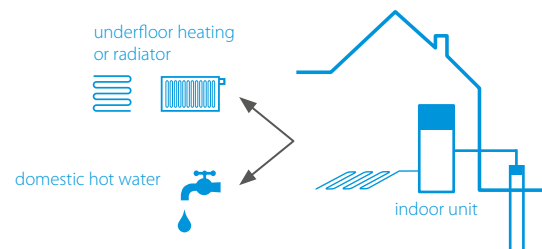
For more detailed information, please go to page 26.



## 4. 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 36.



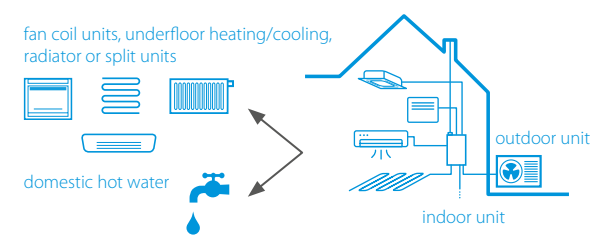
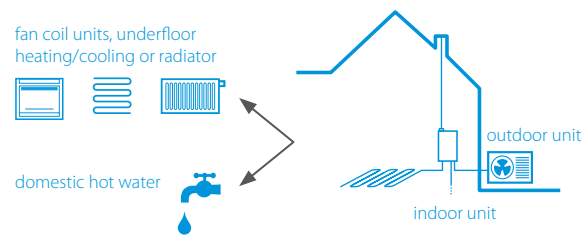


## 5. Hybrid heat pump

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 32.





# Always in control

Control your climate from any place, at any time







# Onecta app\*

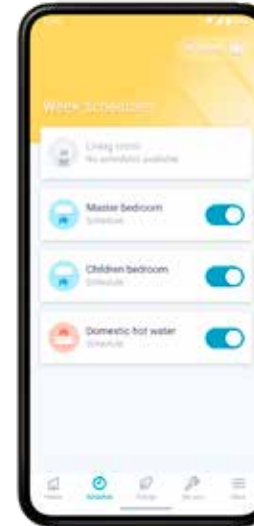
The Onecta app can, from any place at any time, control and monitor the status of your air conditioning or heating system and allows you to:



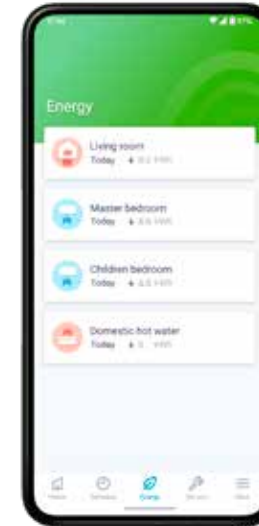
Control your devices remotely



Manage your schedules



Energy consumption



View and control your Daikin units



## Control

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

## 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

## Monitor

- The status of your system
  - › Room temperature
  - › Requested room temperature
  - › Operation mode
- Energy consumption graphs (day, week, month)

\*Availability of functions is depending on the system type, configuration 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 33)

### 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 to mid temperature** (page 26)

for heating and hot water: **Daikin Altherma ground source heat pump** (page 36)

## 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 33)

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

#### DAIKIN RECOMMENDS

for heating and hot water: **Daikin Altherma high temperature** (page 30)

or **Daikin Altherma ground source heat pump** (page 36)

### 3. You only want domestic hot water

#### DAIKIN RECOMMENDS

for hot water: **Daikin domestic hot water heat pump** (page 38)



# 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.



## Daikin Emura, design that speaks for itself

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



## 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**



## 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**



## Perfera, design floor standing unit, for optimal heating comfort thanks to unique heating features

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**



## 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.





# 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



Heating and cooling in one unit, for year-round comfort with the highest energy label available



In winter, the Ururu function replenishes the moisture in the air to maintain a comfortable feel without unnecessary heating



In summer, the Sarara function removes excess moisture while maintaining an even temperature thus eliminating the need for extra cooling



Ventilation for fresh air even with closed windows





## 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. Using electrons to trigger chemical reactions with air borne particles, the Flash Streamer\* breaks down allergens such as pollen and fungal allergens and removes bothersome odours providing a better, cleaner air.

Daikin's self-cleaning filter keeps your air clean



Using electrons to trigger chemical reactions with air borne particles, the Flash Streamer breaks down allergens such as pollen and fungal allergens and removes bothersome odours providing a better, cleaner air

Pre-filter catches dust



Titanium apatite deodorising filter decomposes bothersome odours of for example tobacco and pets

## Energy efficiency

Up to  
**A+++**  
in cooling

Up to  
**A+++**  
in heating

## Reliability

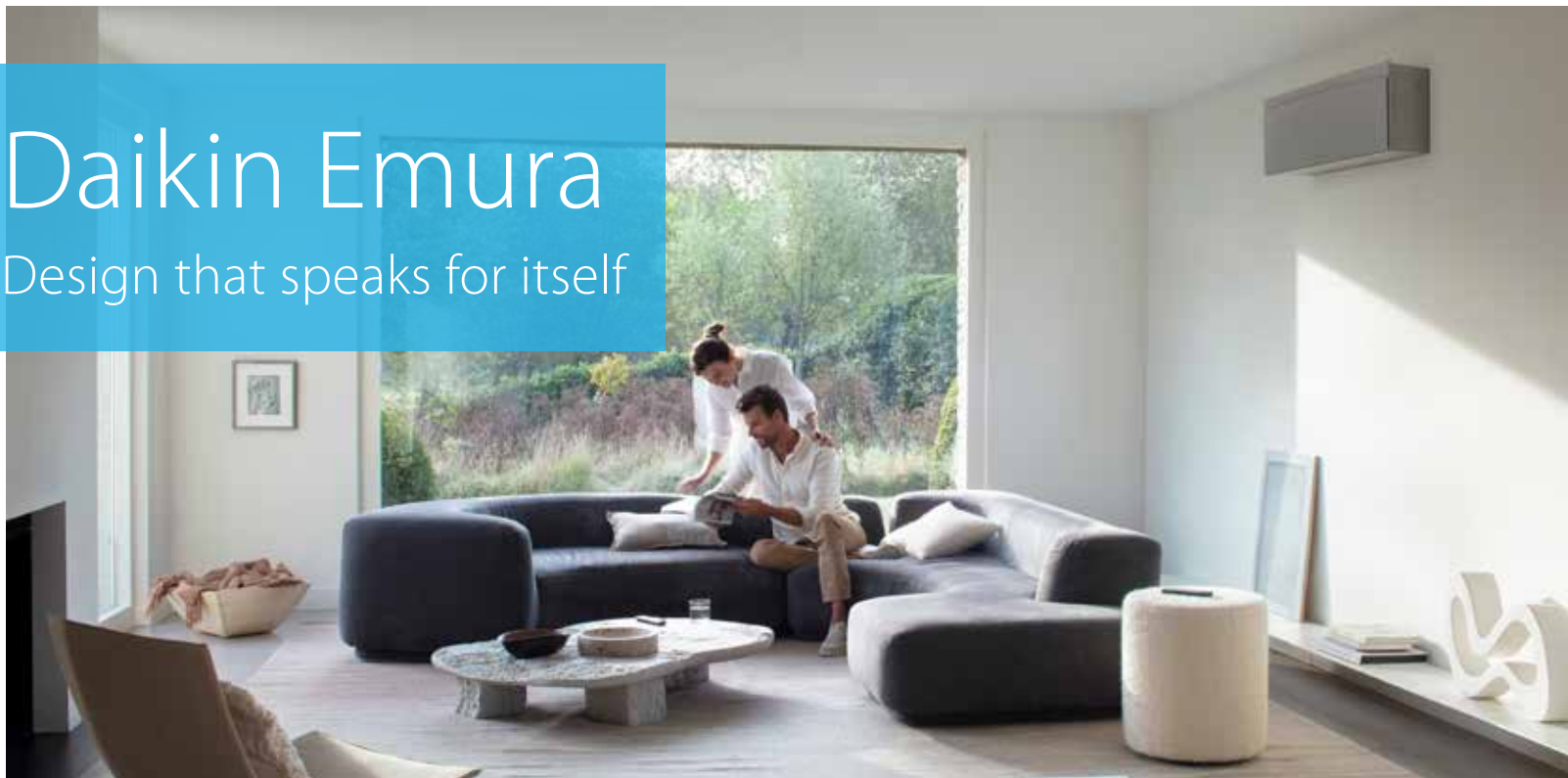
### BLUEEVOLUTION

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

\* The Flash Streamer technology is not meant to be used for medical purposes

# Daikin Emura

Design that speaks for itself



## Why choose Daikin Emura?

- › Top design with three stylish finishes, matt black, silver 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

Daikin Emura is the result of ongoing research and development to create superior air conditioning solutions for European interiors. Daikin Emura has a remarkable design with soft shadow lines and adds smart features and improved user experience – making it even more relevant to European architectural aesthetics, technical standards and user demands.





## Comfort

### Intelligent thermal sensor

Daikin Emura uses an intelligent thermal sensor to detect a room's current temperature. After determining the room temperature, the intelligent thermal sensor distributes air evenly throughout the room before switching to an airflow pattern that directs warm and cool air to areas that need it.

### 3D airflow

To ensure a constant and harmonised temperature throughout the room, the 3D airflow system combines vertical and horizontal auto-swing louvres, creating an even distribution of air, even into the corners of large spaces.

### Using the Coanda effect

For a comfortable climate, Daikin Emura makes use of the Coanda effect to optimise the airflow in heating and cooling mode: when in heating mode, the flaps direct air downwards, while in cooling mode, they move air upwards.

### Heat boost

Daikin Emura quickly heats the room when starting up, ensuring the set temperature is reached faster.

## 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



# 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-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
- › Using electrons to trigger chemical reactions with air borne particles, the Flash Streamer breaks down allergens such as pollen and fungal allergens and removes bothersome odours providing a better, cleaner air
- › 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)



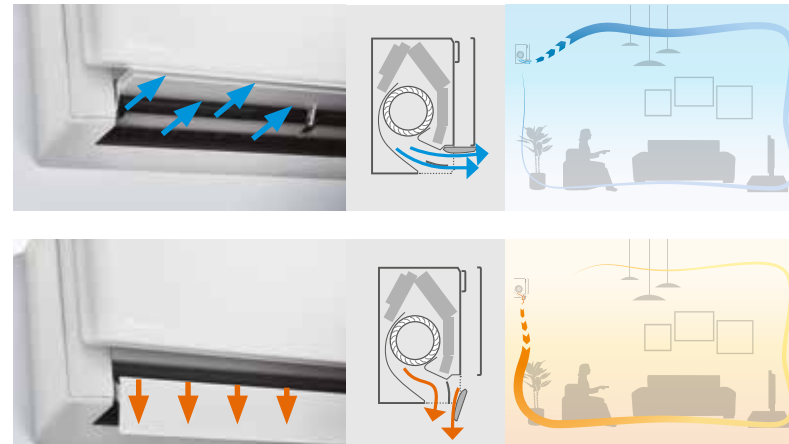
## The Coanda effect

Already present in the Ururu 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.



## Intelligent thermal sensor

Stylish uses an Intelligent thermal sensor to detect the surface temperature of a room to create a more comfortable climate. After determining the current room temperature, the grid eye sensor distributes air evenly throughout the room before switching to an airflow pattern that directs warm or cool air to areas that need it.



## 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



The perfect solution for a comfortable home



### Why choose Perfera wall mounted unit?

Whatever the weather's doing outside, inside you want optimum comfort throughout the day. Like a cool summer breeze, Perfera instinctively knows how to keep the room temperature in your living or working space at the ideal level, so that you and those around you can get on with relaxing, enjoying yourselves – and being productive. The stylishly designed front panel, whisper-quiet operation and the perfect circulation of cooled or heated air help make each room the place you – and everyone – always want to be.

### Comfort

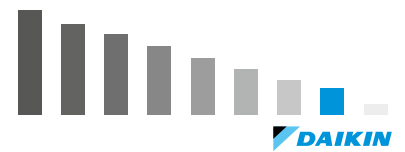
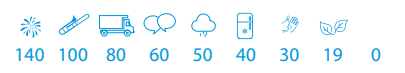
#### 3-D Air flow

By pressing the buttons on the remote control, this function combines vertical and horizontal auto-swing to circulate a stream of cool/warm air right to the corners of even large spaces.

#### Silent operation

Perfera uses a specially designed fan that optimises airflow and creates high energy efficiency at low sound levels. For even higher energy efficiency, Daikin has also designed a new fan that fits snugly into Perfera's compact dimensions.

Together, the fan and heat exchanger produce top energy performance, yet operate at a sound level that is practically inaudible. Shhh!





### Clean air

Using electrons to trigger chemical reactions with airborne particles, the **Flash Streamer** removes allergens such as pollen and fungal allergens, eliminating unpleasant odours and providing better, cleaner air.

The **silver allergen removal and air purifying filter** is your solution, because it captures allergens such as pollen to ensure a steady supply of clean air.

And the **titanium apatite deodorising filter** works hard to combat smells such as tobacco smoke and pets.

### NEW Heat boost

Heat boost quickly heats up your home when starting up your air conditioner. Set temperature is reached 14% faster\* than a regular air conditioner (pair only).



\*Heat boost test condition: 50 class, outdoor temperature 2°C - Indoor temperature 10°C, R/C setting: 23°C

## 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

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

## Heating and cooling different spaces with one outdoor unit

### Comfort

#### Less mounting space, less visibility, less noise

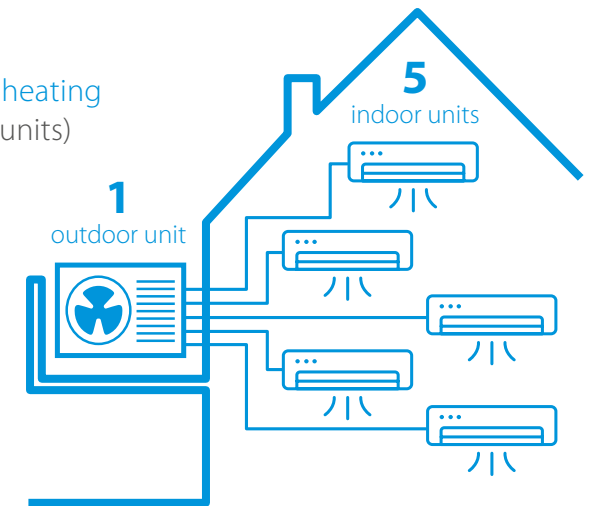
With a multi outdoor unit, you only have to find space to mount one unit on the façade of your house, so it's much easier to place it subtly and out of sight. What's more, as there's only one unit in operation, noise levels are dramatically lower than with multiple units.

#### 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.

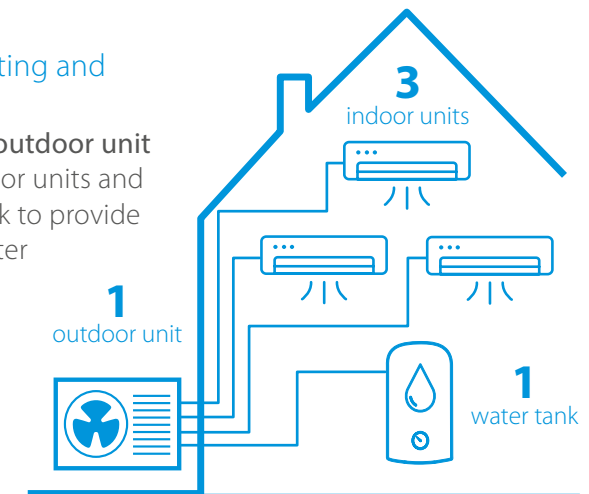
## 2 options

**Multi**  
for cooling and heating  
(up to 5 indoor units)



**NEW Multi+**  
for cooling, heating and  
hot water

Connect **Multi+ outdoor unit** with up to 3 indoor units and a 90 l or 120 l tank to provide domestic hot water



## 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

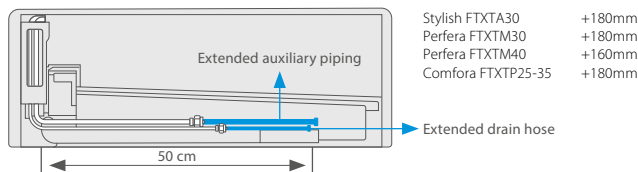
Designed for colder climates, Optimised Heating 4 creates a comfortable interior environment while maintaining excellent energy efficiency ratings.

## 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

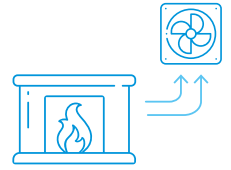
The Daikin Optimised 4 offers a quick and easy installation process, which includes extended piping: This longer piping is specifically adapted to accommodate the thicker walls of Scandinavian buildings, and help contractors cut down on installation time.



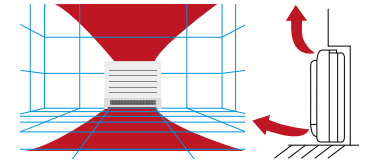
## The fireplace scenario

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  $\Delta T$



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

## 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.

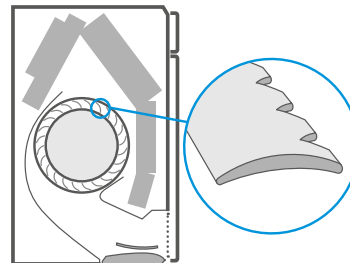
## Intelligent thermal sensor

Stylish uses an Intelligent thermal sensor to detect the surface temperature of a room to create a more comfortable climate. After determining the current room temperature, the grid eye sensor distributes air evenly throughout the room before switching to an airflow pattern that directs warm or cool air to areas that need it.



## Quiet operation

Stylish uses a **specially designed fan** to optimise airflow for higher energy efficiency at low sound levels. Sound dispersion and noise reduction are the results of a special fan design.



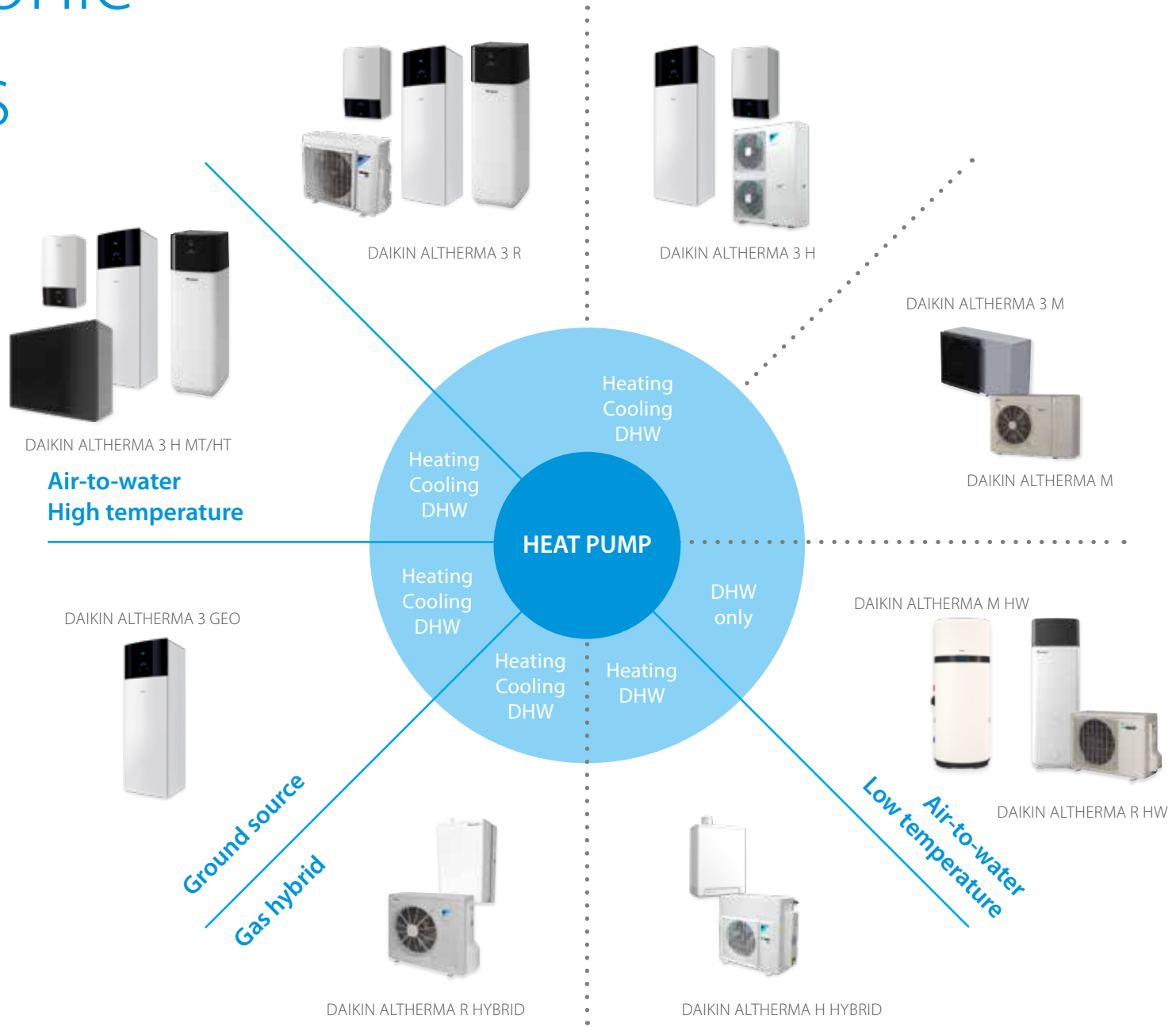
## Bluevolution Range

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-BW/BB		A <sup>+</sup> (pair only)		
Wall mounted	Perfera: Discreet, modern design for optimal efficiency and comfort thanks to 2-area motion detector sensor	FTXTM-R		A <sup>+</sup> (pair only)		A <sup>+</sup> (pair only)
Wall mounted	Comfora: Wall mounted unit, providing high efficiency and comfort while reducing the environmental impact	FTXTP-M	A <sup>+</sup> (pair only)		A <sup>+</sup> (pair only)	
Floor Standing Unit	Design floor standing unit for optimal heating comfort thanks to unique heating features	FVXM-A	A <sup>+</sup> (pair only)		A <sup>+</sup> (pair only)	
Wall mounted	Wall mounted unit Siesta: providing high efficiency and comfort while reducing the environmental impact	ATXTP-M	A <sup>+</sup> (pair only)		A <sup>+</sup> (pair only)	

\* Space heating - average climate

# Daikin hydronic heat pumps









# Daikin Altherma 3 R / H low temperature air-to-water heat pump



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

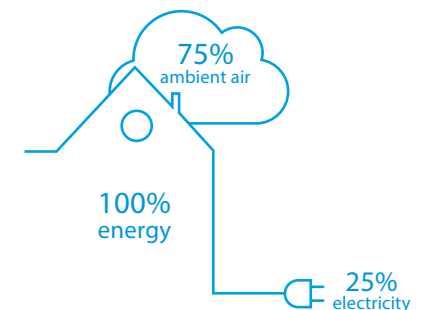
### Powered by renewable energy

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 ECH<sub>2</sub>O principle\* to provide superior water sanitation
- › Incorporates advanced technologies and frost protection features to prevent ice buildup



**BLUEVOLUTION**

## 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

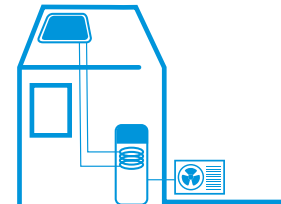


reddot design award  
winner 2018



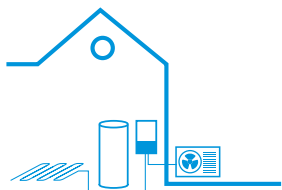
Floor-standing unit with integrated domestic hot water tank  
**Compact and yet 100% comfort guaranteed**

- › All components and connections are factory mounted
- › Very small installation footprint required (only 0.36 m<sup>2</sup>)
- › Minimum electrical input with constantly available hot water
- › Cooling option
- › Bi-zone option: two temperature zones automatically regulated by the same indoor unit



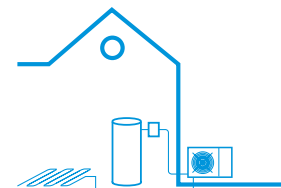
Integrated ECH<sub>2</sub>O  
**Maximising renewable energy with top comfort  
for hot water preparation**

- › 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)

# ECH<sub>2</sub>O

domestic hot  
water comfort

**Domestic hot water plays an important part in achieving the ultimate comfort at home. With Daikin's ECH<sub>2</sub>O range of thermal stores, you can rely on almost instantaneous domestic hot water at any time. Easy to install and energy efficient, the ECH<sub>2</sub>O 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 M

The power pact

The Daikin Altherma 3 M is Daikin's first third-generation monobloc. This new edition features a brand-new design and runs on refrigerant R-32.



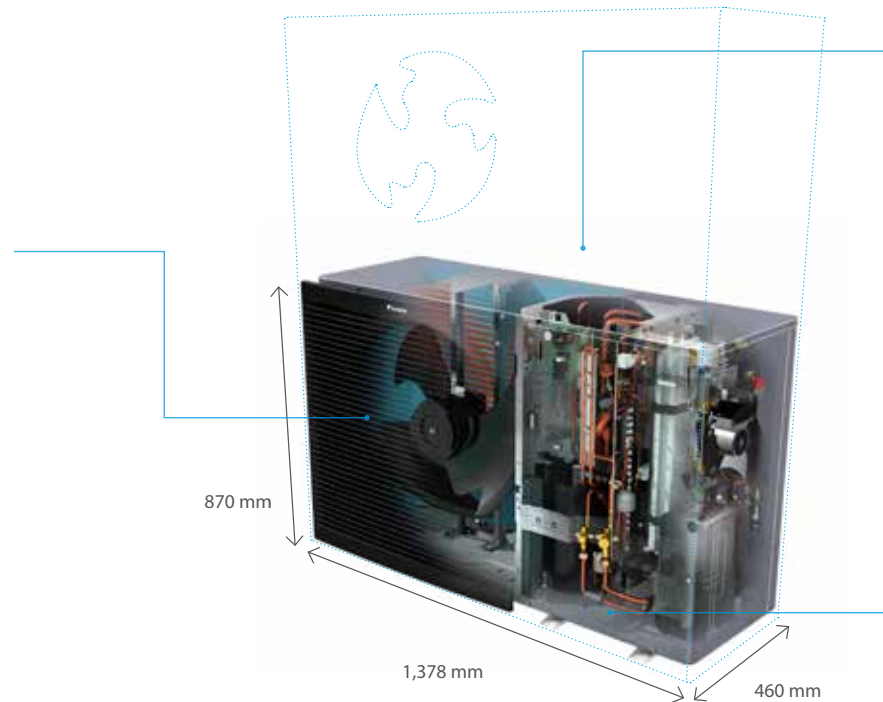
## Improved compact design

## A single fan for high-capacity units

Daikin engineers replaced the double fan with one larger fan and optimised its shape to lower the operational sound and improve air circulation.

## Ideal for small spaces

The monobloc is the ideal solution for places that have limitations on space. No additional indoor unit is required, and the monobloc can fit right under a window to save outdoor space.



## A redesigned casing

A black horizontal front grille hides the single fan, reducing the perception of sound produced by the unit. The light grey casing reflects the installation space to help the unit blend into any environment.

## Monobloc running on refrigerant R-32

Daikin is a pioneer in launching 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 CO<sub>2</sub> emissions. Easy to recover and reuse, R-32 is the perfect solution for attaining the new European CO<sub>2</sub> emission targets.

**R-32** BLUEEVOLUTION

# Fully connected

The Daikin Altherma 3 M finds its power in Daikin Altherma total solution, including controls, heat collectors and heat emitters.



## Onecta App, with voice control

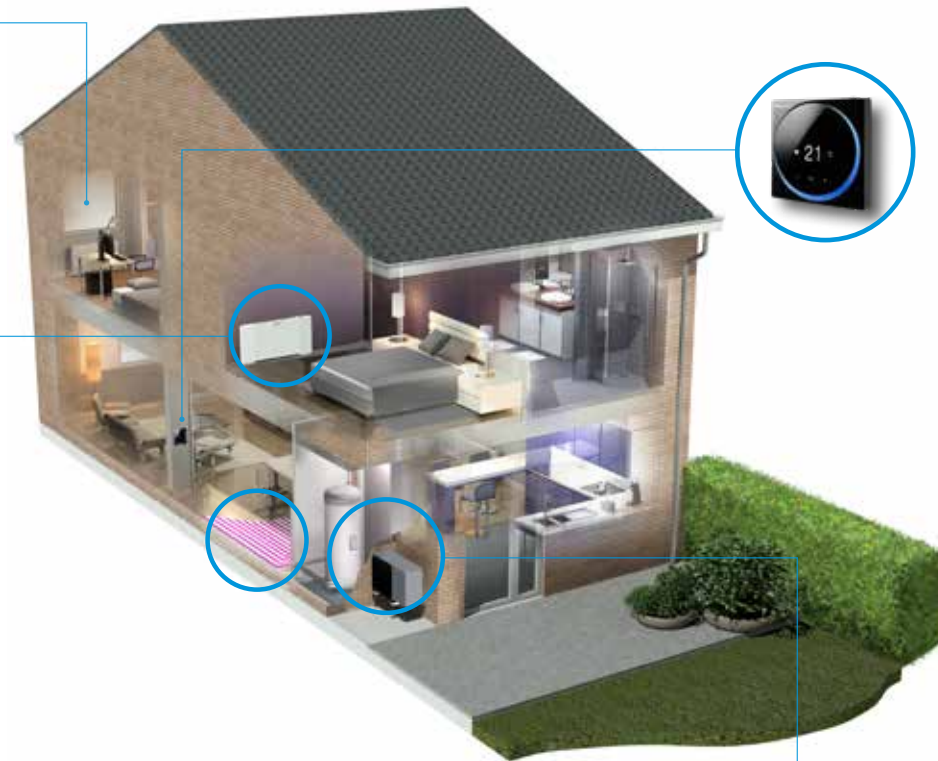
- › Control the heating system from home or remotely via smartphone
- › Control the heating system with voice commands
- › Integrate with Google Assistant and Amazon Alexa
- › Other features include:
  - Scheduling for daily use or holiday mode
  - Controlling multiple units/performance boosting
  - Monitoring energy consumption



Cloud ready with  
WLAN option

## Heating and cooling emitters

As a mid-temperature heat pump, the Daikin Altherma 3 M works perfectly with various emitters, including fan coils, underfloor heating and heat pump convectors.



## Madoka: a user-friendly wired room thermostat

- › Sleek and elegant design
- › Intuitive touch button control
- › Three colours to match any interior (white, black and silver-grey)
- › Compact unit measuring only 85 x 85 mm



reddot design award  
winner 2018

## Domestic hot water production

The monobloc combines with stainless steel tanks (EKHWS-D), thermal stores and panels (EKHWP) to provide domestic hot water quickly.



Daikin Altherma 3 H MT/ HT

# Mid to high temperature air-to-water heat pump

## Designed to withstand the coldest climate conditions

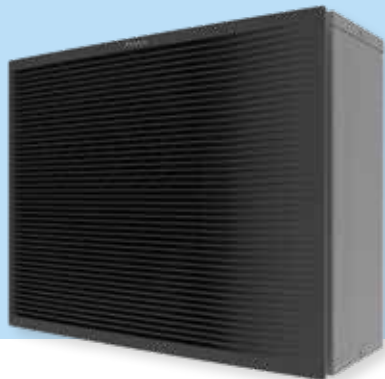


Aside from the acoustic comfort, design is a decisive point nowadays. Specific attention was paid to making the outdoor unit blend in with your home.

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 reddot design awards 2019.



reddot design award  
winner 2019



## Made in Europe, for Europe

European weather can be tough sometimes. That's why we designed the Daikin Altherma 3 H MT & 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.

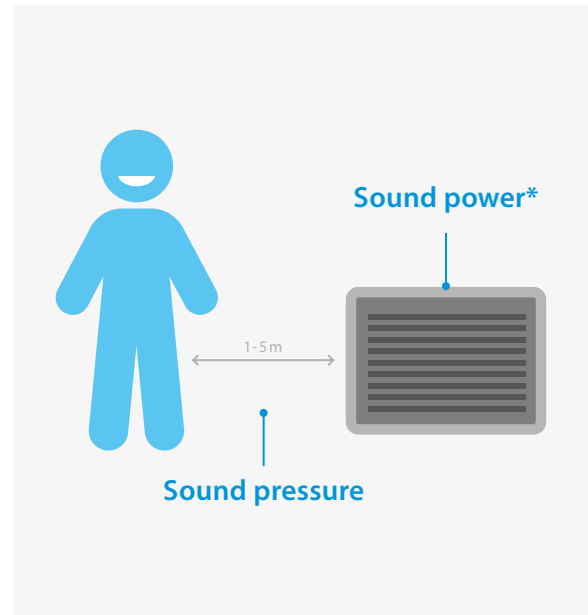
**Superior performance, renewable energy use, design and acoustic comfort. This is what the Quintessence of heat pump is all about.**

# BLUEEVOLUTION

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 CO<sub>2</sub> emissions.

Easy to recover and reuse, R-32 is the perfect solution for attaining the new European CO<sub>2</sub> 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.

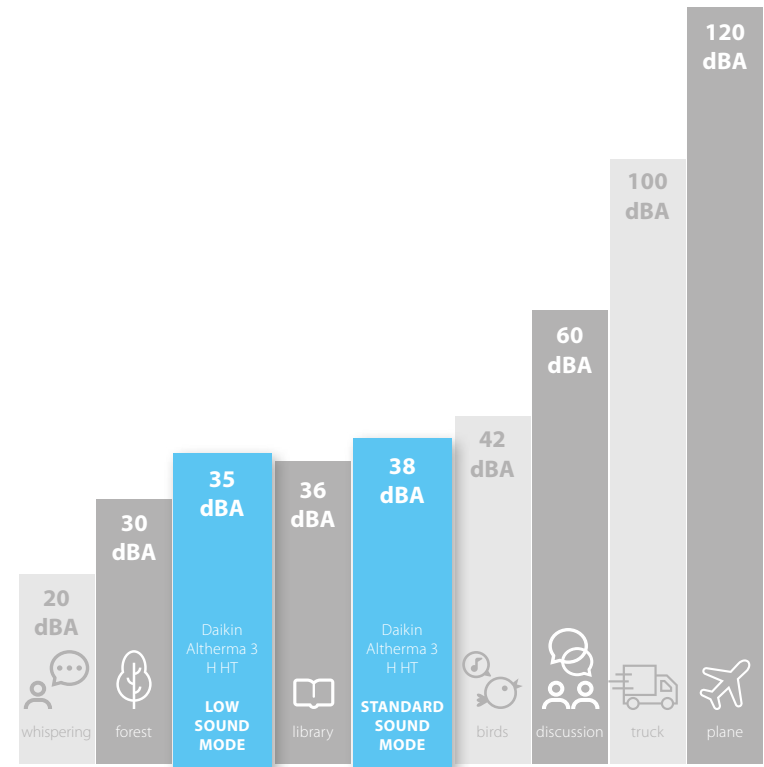
In standard sound mode, the unit produces a sound pressure of 38 dBA at 3 metres, so somewhere between birds chirping and the inside of a library. The Daikin Altherma 3 H HT also offers greater flexibility by having a low sound mode that reduces the sound pressure at 3 metres to 35 dBA, representing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

\* Erp sound power:  
Daikin Altherma 3 H MT = 53 dBA  
Daikin Altherma 3 H HT = 54 dBA

### 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



H<sub>2</sub>O

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.

## 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



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

**ECH<sub>2</sub>O**



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 ECH<sub>2</sub>O\* 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

- › Maximum temperature of 62°C from renewable energy with heat pump alone or through a Heating Element (up to 75°C)
- › Among the most quiet with 50 dBA sound power
- › 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 200 and 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
- › 5 operating modes to answer all needs in the best way possible

## Year-round reliability

- › 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 43 °C outside temperature



# Indoor air quality solutions



## Breathe healthy and humidified air with Daikin air purifiers

Pure air purification: MC55W/VB |  
Pure air and humidification in one: MCK55W

Proven effectiveness against respiratory viruses (among others human coronavirus HCoV-229E) evaluated by Institut Pasteur de Lille\*



# 99.98%

of coronavirus removed in 2.5 minutes\*.

According to tests performed in the laboratories of the Institut Pasteur de Lille, Daikin's air purifiers remove more than **99.98%** of human coronavirus HCoV-229E in **2.5 minutes\***. This virus is of the same family as SARS-CoV-2, the coronavirus behind the COVID-19 pandemic.

\*Daikin device MCK55WWM (commercial name MCK55W), tested by Institut Pasteur de Lille, removes 99.996 % of Human Coronavirus HCoV-229E in 2.5 minutes running time at 'turbo' speed in laboratory conditions (air-tight chamber with inner volume 0.47 m<sup>3</sup>, no air renewal). Human Coronavirus HCoV-229E is different from the virus responsible for COVID-19, SARS-CoV-2, but belongs to the same family of coronaviruses. | Daikin device MC55WWM (commercial names MC55W/VB), tested by Institut Pasteur de Lille, removes 99.98 % of Human Coronavirus HCoV-229E in 2.5 minutes running time at 'turbo' speed in laboratory conditions (air-tight chamber with inner volume 1.4 m<sup>3</sup>, no air renewal). Human Coronavirus HCoV-229E is different from the virus responsible for COVID-19, SARS-CoV-2, but belongs to the same family of coronaviruses. | Daikin device MCK55WWM (commercial name MCK55W), tested by Institut Pasteur de Lille, removes 99.986 % of Influenza A virus subtype H1N1 in 2.5 minutes running time at 'turbo' speed in laboratory conditions (air-tight chamber with inner volume 0.47 m<sup>3</sup>, no air renewal). | Daikin device MC55WWM (commercial names MC55W/VB), tested by Institut Pasteur de Lille, removes 99.93 % of Influenza A virus subtype H1N1 in 2.5 minutes running time at 'turbo' speed in laboratory conditions (air-tight chamber with inner volume 0.47 m<sup>3</sup>, no air renewal).



Efficient against allergens as recognized by BAF (British Allergy Foundation). The Allergy UK Seal of Approval reassures that the product is efficient at reducing small particulates which may include allergens, bacteria and viruses.





# Indoor air quality solutions

Combine your air conditioning or heating system with an air purifier



To increase your personal comfort and indoor air quality to a next level, **our air conditioners and heating systems can work together with our air purifiers.**

If you only require heating or cooling, an air conditioner or heating system is sufficient. If you want perfect indoor air quality including heating and/or cooling, it is advised to combine your air conditioning system with an air purifier.

Comfort



- > Cooling
- > Heating

Pure air

Pure air & humidification in one



MC30Y/YB    MC55W/VB    MCK55W    MCK70YV/YB

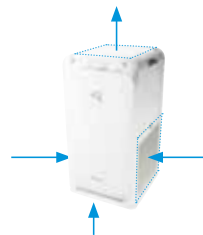
- > Air purification by removing odours, allergens, dust, bacteria and viruses
- > Humidification

## Daikin's unique **Catch & Clean** approach 3 steps to decompose harmful substances

1

### Powerful suction

Takes in air over a wide area from 3 directions.



2

### Effective capturing of pollutants

Efficiently catches dust and pollutants with an electrostatic HEPA filter.



3

### Decomposition

Uses Daikin's Streamer technology to decompose, by oxidation, harmful substances caught on the filter.



No maintenance costs for at least **10 years**

No need to change the filters in the first 10 years after unit purchase, avoiding additional costs for regular filter changes.



One of the **most silent** air purifier range on the European market

Our air purifiers are whisper quiet during **quiet operation** (sound pressure level: 19 dBA), providing you pure air without noticing.



**Compact & performing**

Small size, but also perfect for large surfaces, up to 96 m<sup>2</sup>(\*) (dependent on model)

\* Area calculated according to NRCC-54013-2011 standard using CADR value by test method based on Japan Electric Manufacturers' Association Standard JEM 1467.

# Residential ventilation

## Centralized Heat Recovery Ventilation (CHRV)

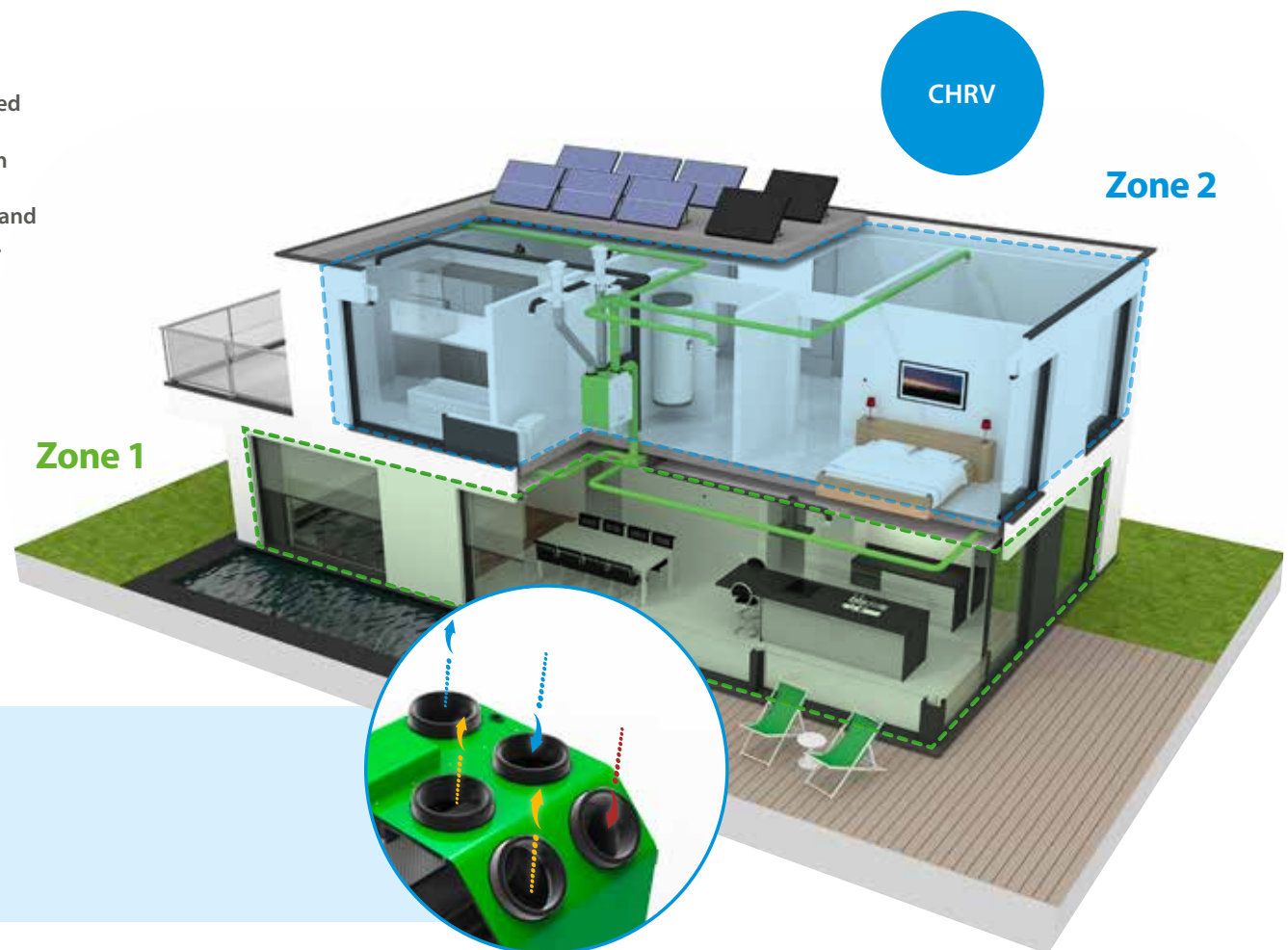
### Only at Daikin

Thanks to DUCO, Daikin offers Centralized HRV systems with an integrated 2-zone valve. With the 2-zone version of the DucoBox Energy Premium, Daikin's product range is extended with a unique ventilation system with embedded 2-zone control. If a certain zone does not require ventilation, that zone is not ventilated. Cost savings on heating, lower consumption and noise comfort of the unit itself (lower rpm) are the logical consequences.

Sensors meticulously detect the residents' movements throughout the home. This makes it possible to automatically determine where, when and in what amount ventilation is required.

By controlling the two zones separately with a built-in valve, the consumption of the EC fans is reduced considerably, which translates into an A+ energy label.

- ✓ Optimal indoor air quality in the most energetically optimised manner thanks to 2-zonal control
- ✓ Quietest ventilation system on the market
- ✓ Automatic calibration



## DucoBox Energy Comfort

First choice for building projects



The DucoBox Energy Comfort is a Mechanical Ventilation unit with Heat Recovery (MVHR). This smart and silent ventilation unit, with its adjustable capacity of up to 325 m<sup>3</sup>/h, is the ideal solution for apartments and houses due to its compact size. The left/right switch is 100% software-driven thanks to the patented principle of double bypass. The dynamic air distribution filters, together with the smart demand control based on CO<sub>2</sub> and humidity, ensure for exceptional efficiency within this compact unit.

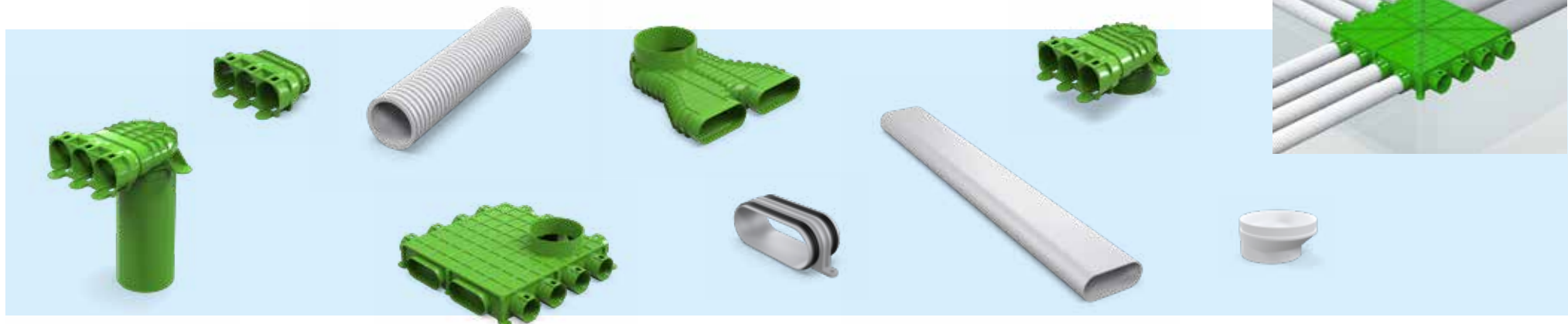
## DucoBox Energy Premium in the spotlight



The DucoBox Energy Premium raises CHRV with heat recovery to the next level. Ideal for installation in an energy-neutral home of the future, automatic calibration and integrated 2-zone control with demand control ensure ultra-quiet, intelligent and energy-saving operation.

## DucoFlex

Complete air duct system for CHRV systems



### ✓ 'Zero Noise' guarantee

- › Air tightness class D
- › Low air-resistance
- › Maximum comfort

### ✓ Complete Air Duct System

- › One solution for every type of ventilation system
- › Suitable for CHRV units

### ✓ 100 % service

- › Support from the research department
- › One-stop-shop:  
1 brand = 1 ventilation solution

### ✓ 'Click & Go' system

- › Handy click system
- › Minimum parts and fittings
- › Save time = save money



DAIKIN EMURA OUTDOOR UNIT



PERFERA



DAIKIN ALTHERMA 3 H MT/HT

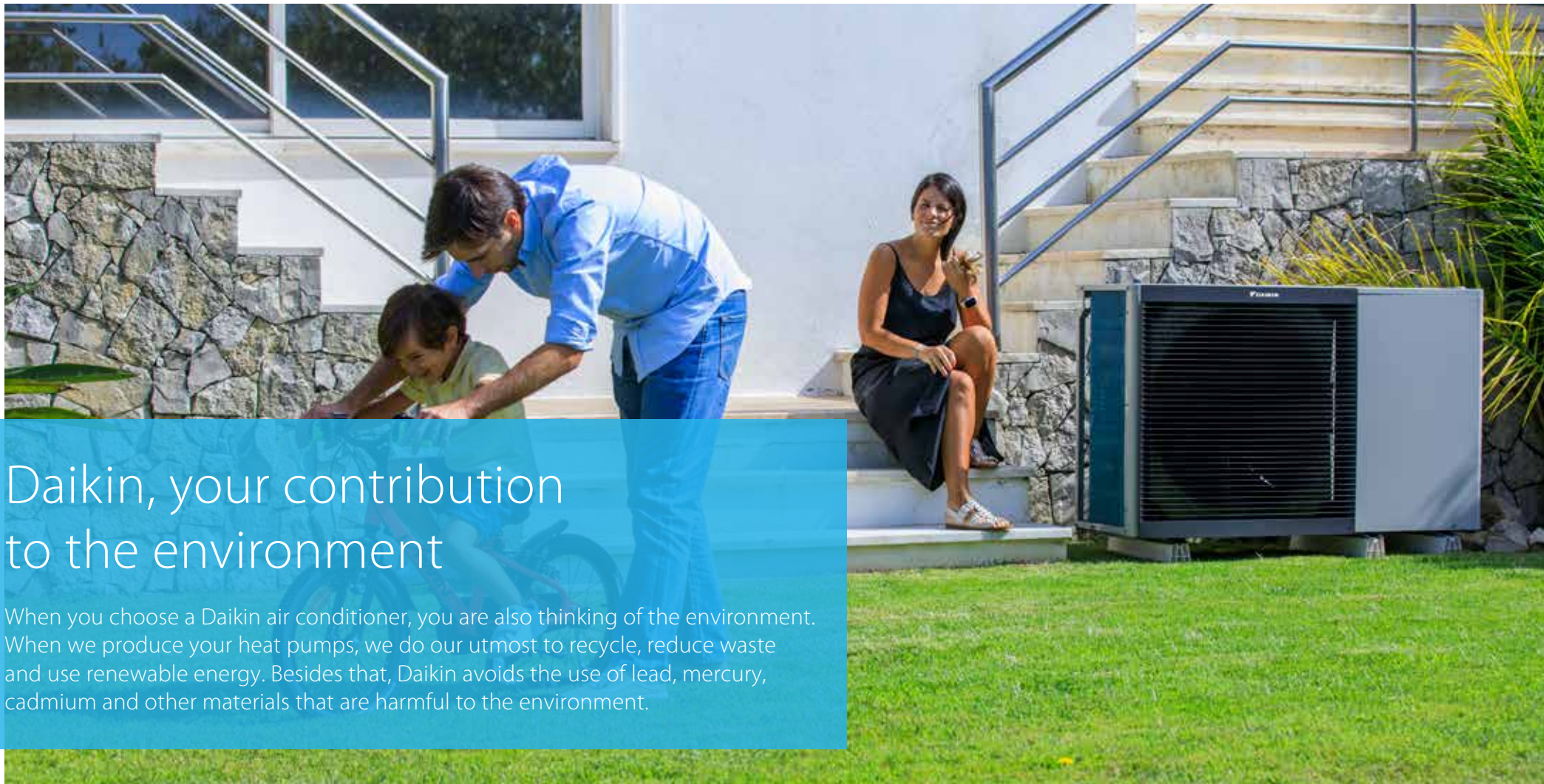


DAIKIN ALTHERMA 3 M









# 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.

**Daikin Europe N.V.** Naamloze Vennootschap Zandvoordestraat 300 · 8400 Oostende · Belgium · [www.daikin.eu](http://www.daikin.eu) · BE 0412 120 336 · RPR Oostende (Publisher)



ECPEN22-001 01/2022



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](http://www.eurovent-certification.com)



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