Dimplex®

Experience Better Living.

System E®

The heat pump for quickly replacing heating systems

www.dimplex.eu

The goal: to achieve climate neutrality by 2045

Heat pumps are essential for the energy transformation to succeed

The new German Building Energy Act ("Gebäudeenergiegesetz" or GEG for short) entered into force on 1 January 2024. Together with municipal plans for the heating supply, it aims to reduce CO_2 emissions in the building sector. A clear goal has been set – for Germany to achieve climate neutrality by 2045. For home owners, this means that once a municipality has drawn up a heating supply plan, every newly installed heating system must be operated with 65 per cent renewable energy. Although oil and gas-fired heating systems are still allowed to be installed until then, they run the risk of becoming uneconomical. Heat pumps play a crucial role in our efforts to achieve climate neutrality. They are currently experiencing their biggest boom since they were invented, and are expected to become the most important heating technology in Europe. For no other system for heating (and cooling) buildings can be operated so efficiently, using only renewable energy.

When it comes to complying with the new legal regulations, a heat pump is always the preferred option and the safest choice.

The three pillars of the energy transformation:

Energy sources that never run out: wind, sun and water

Climate neutrality using energy from renewable sources

Smart solutions for storing and distributing energy – for greater efficiency

The solution: System E®
The sophisticated and durable heat pump for the future

Future-proof, sophisticated and durable

System E® has been developed specifically for use in existing buildings so that a heating system that runs on fossil fuels can quickly and easily be replaced with a new renewable-based heating system.

The state-of-the-art technology, premium workmanship, durable components and natural R290 refrigerant ensure that the system will run smoothly and reliably for many years to come. When using green energy from renewable energy sources – purchased or self-generated – the System E® heat pump system is actually CO_2 neutral.

System E® is optimised for quiet operation and simultaneously provides maximum efficiency and a high level of comfort, as the power-regulated compressor, circulating pump and EC fan components are perfectly coordinated in terms of sound emissions and volume flow.

Dimplex®

Award-winning innovation, design and sustainability

Innovative technology that breaks new ground. Creative design that combines functionality and aesthetics in one. Sustainable solutions that conserve resources and protect the environment. System E® impresses on all counts and has won various awards and prizes from experts and specialist panels in recognition of its first-rate features. It received the “German Innovation Award 2023 – Special Mention” in the category “Excellence in Business to Business – Energy solutions”, as well as the “German Design Award 2024 – Special Mention” for excellence in product design. System E® has also been nominated for the “Green Product Award 2024”, which recognises sustainable products and services.

Green Product Award Nominee 24

GERMAN DESIGN AWARD SPECIAL 2024

GERMAN INNOVATION AWARD ‘23 SPECIAL

The mission: replacing existing heating systems

System E® is extremely flexible, highly efficient and impressively quiet

A high efficiency air-to-water heat pump system with climate-friendly R290 refrigerant, impressively quiet, optimised for rapid heating system replacements and operation with radiators.
System E® delivers high flow temperatures when they are really needed but continues to operate quietly. Year-round domestic hot water preparation up to 60°C is possible:
The System E® model LA 1118CP achieves the best energy efficiency class A+++ at a flow temperature of 55 °C with radiators. In the past, this kind of efficiency could only be attained with underfloor heating (and correspondingly lower flow temperatures). This makes System E® exceptionally well suited for renovation projects with radiators and for properties with mixed heating surfaces (radiators and underfloor heating). To meet different building requirements, System E® is available in two output ranges: 11–18 kW and 15–25 kW.

NEW OUTPUT RANGE
15–25 kW

Dimplex also supplies special heat pump radiators for replacing outdated conventional radiators (see p. 25). This enables critical spaces (e.g. the living room) to be pleasantly heated even at low flow temperatures and also to be "silently" cooled in the summer.

One system – a wealth of possibilities

System E® can be combined with existing heating components such as oil or gas boilers. Integration of thermal solar plants or wood burners is also possible. It is controlled using the heat pump manager. All Dimplex heat pumps are smart grid ready, allowing them to respond to energy price signals. When using self-generated power, the system temperature can be automatically increased in response to a signal from the smart home system to ensure that as much self-generated power as possible is used.
Online tutorials, simplified documentation and extensive accessories mean that System E® can be installed extremely quickly. The "Easy On" guided commissioning and online support from Dimplex set new standards in heating system replacement.

Fit for the future

System E® takes on the duties of the old heating system quickly and with minimal complications, turning renovated properties into modern, future-proof and sustainable homes.

The result: a new superstar

Impressive SPF figures, even at higher flow temperatures

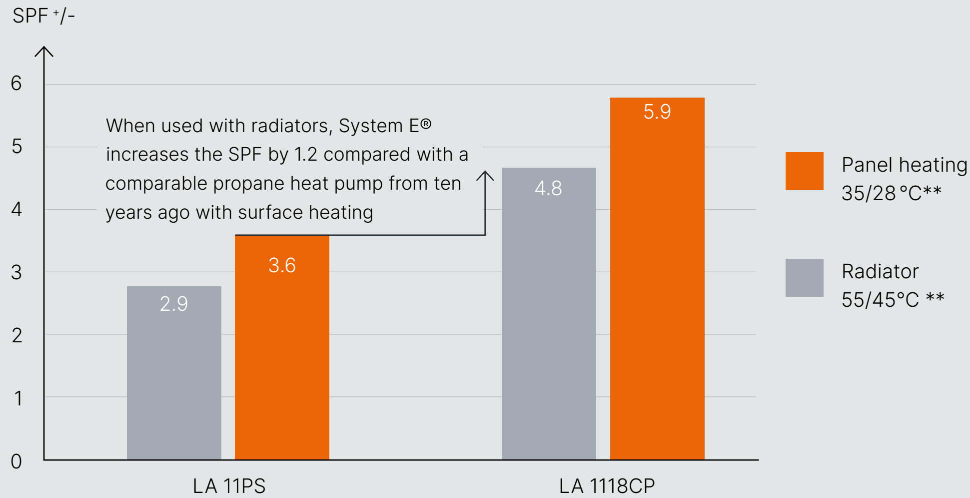
System E® leads the way when it comes to efficiency!

The more efficient a heat pump is, the higher its "seasonal performance factor" (SPF) will be. This indicates how many units of heat the heating system delivers on average over the year from one unit of energy. The flow temperature is a crucial parameter here as the lower it is, the higher the seasonal performance factor will be.

System E® achieves top figures, even at higher flow temperatures, and is therefore ideal for use in existing buildings. Even when used with radiators, the seasonal performance factor for System E® is well above 4. In combination with surface heating systems (such as underfloor heating), it even exceeds 5!
That's efficiency!

System E® impresses when it comes to efficiency

Seasonal performance factor (SPF) compared with older heat pump model*



* monovalent; standard outside temp.: -8 °C; heating limit temp.: 15 °C; SPF of the heat pump in heating operation ** Flow/return temperature

Dimplex

Good to know
If we compare the seasonal performance factor (SPF) of a heat pump that is approx. ten years old (Dimplex LA 11PS with standard efficiency at the time) with the LA 1118CP (System E®), here's what we see: When used with radiators (55°C flow temperature), System E® achieves a +1.2 higher SPF than the LA 11PS combined with underfloor heating (at only 35°C flow temperature). If System E® is combined with a surface heating system, such as underfloor heating, it can even achieve a seasonal performance factor of higher than 5!

A highly efficient team
Create a perfectly coordinated system with Hydrotower

To get maximum efficiency, you need a perfectly coordinated system. The hydraulics play a crucial role in this as they pose a particular challenge, especially in existing buildings with radiators. The Hydrotower ideally complements the System E® outdoor unit LA 1118CP and is a simple, safe, ready-to-use solution that comes complete with the necessary system hydraulics!

All of the components are perfectly coordinated with one another, and the electrical connections of the heat pump manager are pre-wired ex works, making it easy to connect to the heat pump. A hydraulic separator ensures the generator and consumer circuit are decoupled, whilst easy commissioning is ensured with the touch display
and “Easy On” step-by-step instructions. The Hydrotower offers enough capacity in the buffer tank and domestic hot water cylinder to comfortably supply a family of six.

View tutorial

Other benefits include:

1 **Demand-based supplementary heating** via switchable pipe heater (2/4/6 kW)

2 **Integrated heating flange** with 1.5 kW output as standard to support domestic hot water preparation

3 **Flexible expansion options** for bivalent or bivalent-renewable operation with an existing heat generator

4 **Dynamic cooling** with fan convectors and/or silent cooling via underfloor heating incl. dew point control are available via system accessories

5 **Excellent operating reliability** due to double differential pressureless manifold for hydraulic decoupling of generator and consumer circuit

6 **Ready for use** for a heating circuit with separate pumps for the generator and consumer circuit and for domestic hot water preparation. Quick and easy expansion to multiple heating circuits thanks to pre-assembled accessories

Sustainability is the future
Small CO_2 footprint thanks to natural refrigerant

High-quality industrial design
The compact outdoor unit is a low-key, timeless unit that blends perfectly into your environment. Durable materials and careful workmanship give the heat pump a modern look. The sheet metal casing is powder-coated and no plastic parts have been used wherever possible – creating
a clean design that looks sophisticated.

Climate-friendly refrigerant.
System E® contains the natural refrigerant R290.
In addition to its eco-friendly properties, R290 offers a range of other benefits: compared with conventional refrigerants it achieves better performance and thus a higher degree of efficiency – ideal for the high flow temperatures required for
radiators, for example.

Durable quality
Dimplex pays close attention to durability, high quality and – whenever possible – short supply chains and distances. Development and production of the heat pump system is 100 per cent based in Germany – to the very highest quality level.
During operation, the heat pump's CO_2 footprint can be further reduced by using green electricity or even self-generated power, such as from your own photovoltaic plant.

R290

Reliable warmth at all times

Modern inverter technology for different requirements

We may be living in unpredictable times, but System E® simply adapts to them with minimal fuss. Thanks to state of the art inverter technology, the heat pump has the flexibility to respond effectively to different performance requirements. While output can be reduced to a minimum in the summer months, it really steps up to the plate on bitterly cold winter days. This means the heat pump always runs at maximum efficiency while still producing the right temperature for heating and domestic hot water.

This protects the device components to ensure a long service life, reduces noise emissions and saves on energy costs. And ensures a pleasant living temperature in any weather.

A+++
Highest energy efficiency class

Nothing heats as efficiently as a heat pump
In line with the Ecodesign directive, the LA 1118CP (System E®) achieves the highest possible efficiency class A+++ at low temperature (35°C) and medium temperature (55°C). This is because it takes up to 80 per cent of the required energy from the environment and can be run entirely CO_2 free using eco-energy.

65 °C
Flow temperature for 60°C domestic hot water all year round

A pleasant temperature at all times
Even when it gets uncomfortably cold outside, System E® provides pleasantly warm temperatures: year-round domestic hot water preparation up to 60°C is possible.

Cooling as well as heating

System E® as a reversible system – for pleasant temperatures in summer

Due to climate change, our summers are becoming hotter and hotter with a succession of new record temperatures. If you want to keep your four walls at a pleasant temperature level without an additional air-conditioning device, System E® provides a straightforward solution as the heat pump system can be used in reversible mode with no supplementary investment costs. It can cool as well as heat. The refrigeration circuit extracts warm air from the living space, thus cooling it down and discharging the heat outside.

This can be done in two different ways:

1. Using silent cooling

With this method, the underfloor, wall or ceiling heating systems or the heat pump radiators are used to reduce the room temperature. A smart room temperature controller (smart RTC) monitors the temperature and humidity in the rooms being cooled.
The required mixing valve automatically keeps the cooling water temperature above the dew point calculated by the heat pump manager. This is important to ensure no condensate forms. Although it reduces the available cooling capacity, it does prevent any unpleasant draughts. Silent cooling is suitable for preventing the building from gradually warming up.

2. Using dynamic cooling

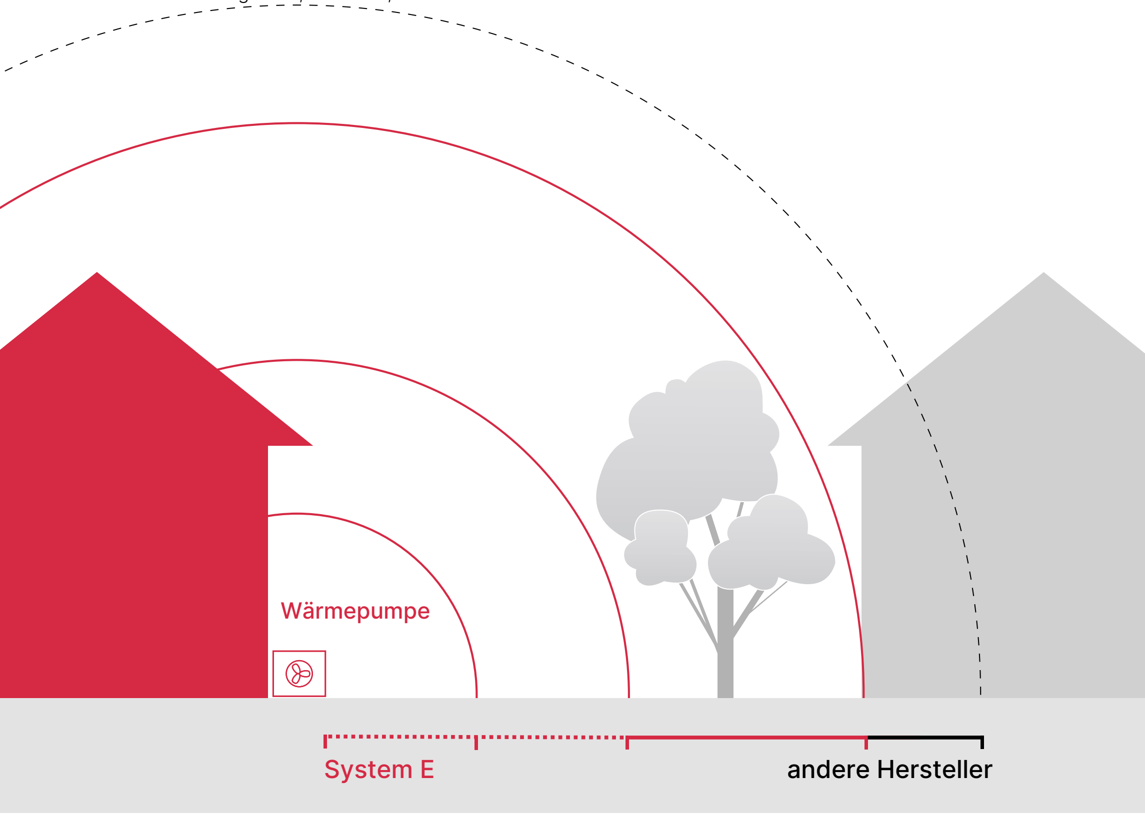
This method can be achieved using fan convectors and delivers higher cooling capacity. Through the active support of the heat transfer process using fans, a greater cooling capacity can be transferred, even when humidity levels are high. The cooling water temperatures are below the dew point, enabling them to cool and dehumidify the indoor air. The condensate that forms has to be drained away via a condensate drain.

Keep your neighbours happy
Runs more quietly than falling rain

System E® is optimised for quiet operation and blends unobtrusively into the ambient acoustics. The EC axial fan and the vibration decoupled compressor are so well coordinated that they only produce a natural quiet air sound during operation.
System E® achieves an extremely low sound power level.

By way of comparison: while whispering at 30 dB(A) is quieter, rain (55 dB(A)) is louder than the noise level of the System E® outdoor unit.
To ensure that neighbouring properties do not have their peace disturbed, the device has been designed so that it can be installed close to walls. This allows the distance from neighbours to be kept as far as possible.
According to the BWP sound calculator, System E® complies with the German technical instructions on noise abatement (TA-Lärm) at a distance of just three metres from the nearest window of a room requiring sound insulation*, even when installed close to walls – making it ideal for densely built-up areas.

*Living room, bedroom, children's room or work room



!

The sound power level is measured under defined conditions at A7/W55.
The actual sound pressure level that can be measured on site at a defined distance can be calculated from this figure, e.g. using the BWP sound calculator:
www.waermepumpe.de/schallrechner

Simple monitoring

Controlled, networked and convenient – thanks to the WPM Touch

A system works only as well as it is controlled. The WPM Touch combines centralised control for heating, cooling, domestic hot water and swimming pool preparation and is exceptionally user-friendly.
A graphical touch interface ensures the system is easy to use.
Thanks to standardised interfaces and SG Ready features, the system is perfectly set up for integration into building networks or use of variable load tariffs.

Smart

for the user. Desired temperatures and operating modes can be changed intuitively. The system data is available quickly and easily.

View tutorial

The Dimplex touch display

Dimplex heat pumps come with a touch display as standard. The wall-mounted controller ensures efficient and convenient operation. The intuitively designed user interface on the display can be used to carry out all heat pump settings easily on-site.

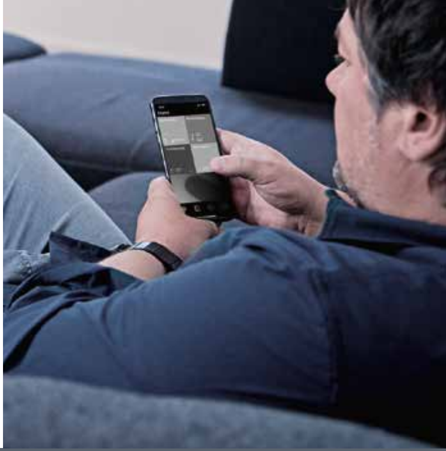
Easy

for the installer.
Easy On guided commissioning takes the installer step by step through how to optimally configure the heating system.

View tutorial

The Dimplex Home app

Using the Dimplex Home app, you can access the Dimplex heat pump at any time and from anywhere. You can use the intuitively designed app interface to set different temperatures for individual rooms and schedule the heating to come on at different times or enable holiday mode if you are away.



Compare options clearly

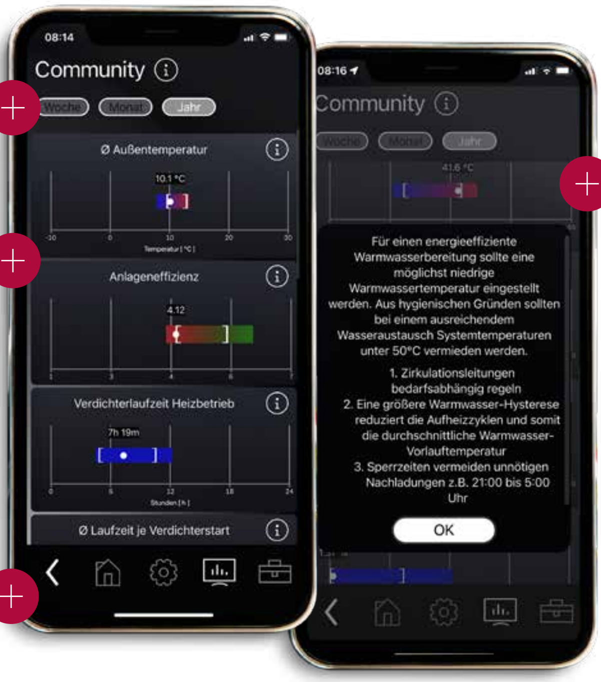
Optimise your system with the heat pump community

The premium version of the Dimplex Home app offers all owners of a System E® heat pump a new option: in the heat pump community, the performance figures from all System E® heat pumps with online access are recorded. Thanks to this unique level of transparency, you can compare your System E® heat pump (LA 1118CP) with others and identify areas where you can optimise your own usage.
This helps to ensure the system runs as efficiently as possible – and ultimately saves you money!

Different analysis periods can be selected

All key performance data at a glance

Fast comparisons are possible: the display shows the figures for the user's own system (point), the figures from approx. 80 per cent of recorded heat pumps (brackets) and the figures for all connected heat pumps (coloured area).



For each figure there is brief information ⓘ explaining the figure and its influencing factors and providing tips.

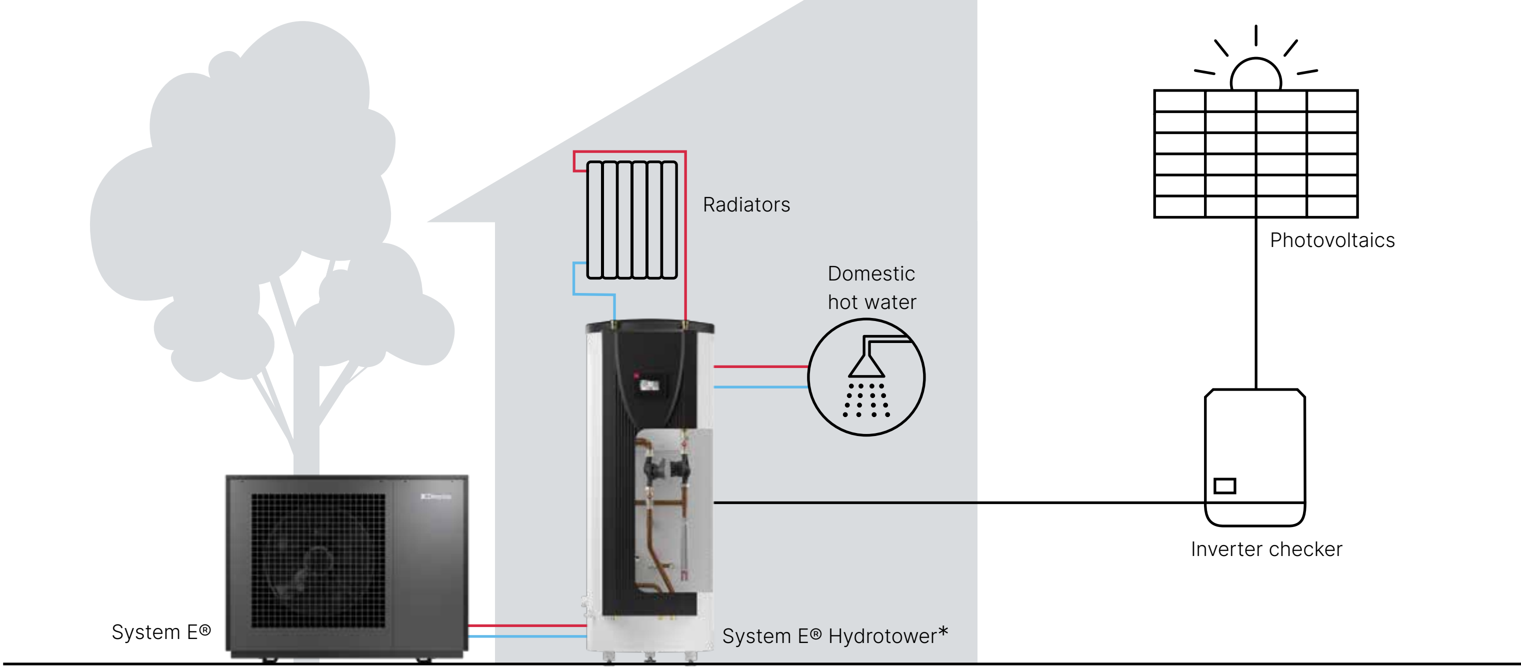
Dimplex Home App
Available in the Apple App Store, Google Play Store and the Microsoft Store

Your advantages at a glance:

1. You can record the key data from your system at a glance and evaluate your figures by comparing them with other systems of the same type.
2. Help texts explain the main factors influencing system efficiency and highlight potential for optimisation.
3. This enables you to optimise your heating system in consultation with your installer.

System E®

The heat pump for all renovations



System E® – the basic system

The fast way to replace heating systems

Boiler out – heat pump in: the System E® high-efficiency air-to-water heat pump provides everything you need to quickly replace existing heating systems. The practical system components are ready for use and enable quick installation and easy commissioning. The Hydrotower* – an indoor unit combining a buffer tank and domestic hot water cylinder, designed to take up minimal space – is a ready-to-use device with the hydraulics already included.

Installation is very simple:
Connect the flow/return to the heating and domestic hot water and connect up the indoor and outdoor unit – that's all it takes to start System E® using the smart commissioning wizard.

+

1 The fast way to connect up photovoltaic plants

Power generated by your roof

More and more home owners are opting to combine a heat pump with a photovoltaic plant. By installing an inverter checker, System E® can easily be combined with a PV plant. The SG Ready
interface also provides smart control functionality. The Dimplex Home app makes it simple to take advantage of dynamic tariffs – so you can save even more money.

*Combination with Hydrotower only possible with LA 1118CP

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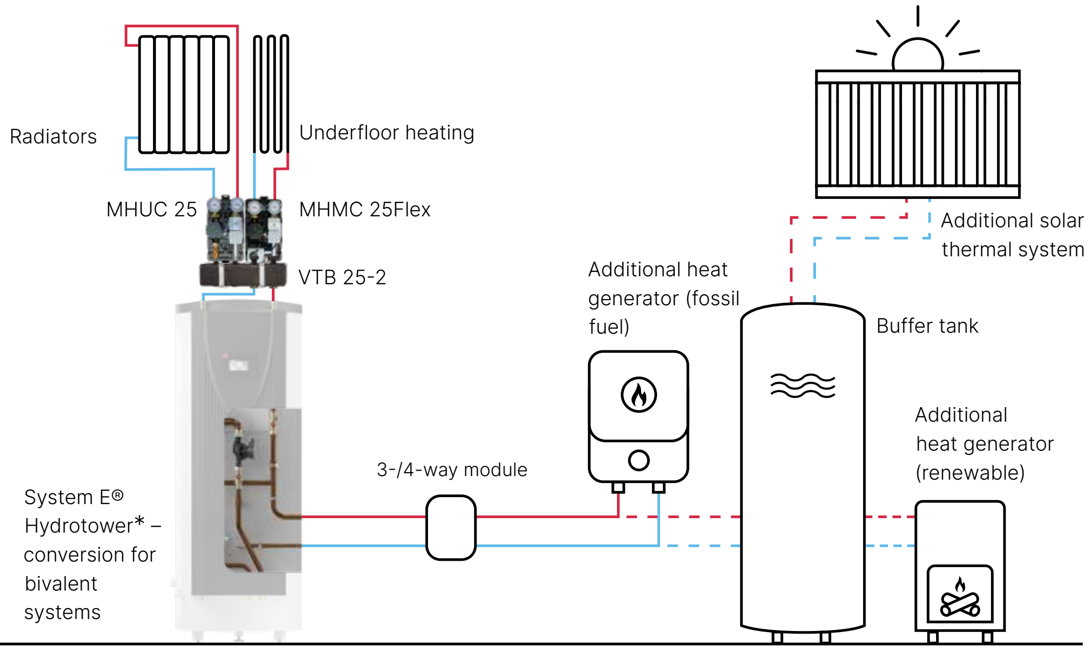
Heat pump radiator



2 The fast way to reduce the flow temperature

Heat pump radiator

System E® has been developed as a highly efficient solution for providing a pleasant room temperature using conventional radiators. If that's not enough for you, or if you want to save energy without retrofitting underfloor heating, you now have the perfect alternative: heat pump radiators can simply replace conventional radiators and provide the same room temperatures and improved heat distribution in the room with lower flow temperatures. A key advantage is that System E® is a reversible air-to-water heat pump, meaning it can also be used for cooling.

3 The fast way to integrate another heating circuit

Radiators & underfloor heating

You often find mixed systems comprising radiators and surface heating in renovated old buildings, for example if underfloor heating has been retrofitted. This isn't a problem for System E®: once equipped with the relevant hydraulics, the heat pump can also supply multiple heating circuits with different flow temperatures. All that is required for this is to remove the consumer circuit pump M13 from the Hydrotower* and replace it with the connection piece supplied with the mixer module MHMC 25Flex. The consumer circuit pump can then be installed in the mixer module.

4 The fast way to create a bivalent system

Other heat source

System E® can integrate another heat generator into the overall system. To do so, this generator must be incorporated in the flow/return at the side (see figure) or from below. The heat pump manager in the Hydrotower* ensures everything is optimally coordinated and controlled.

Bivalent fossil

A fossil-fuel-based heat generator, e.g. gas or oil-fired heating, can be integrated via a reversing valve in order to support the heat pump.

Bivalent-renewable

A solar thermal system or biomass heating system can be integrated via a renewable buffer tank.

New heating system in three days

Making an old building fit for the next generation

Heiko Röder inherited his grandparents' 90-year-old settler house in his home town of Kulmbach and has since completed an energy-efficient renovation. A new heating system from Dimplex lay at the heart of the project.

Family tradition and maintaining a close association with one's home town are very important to Heiko Röder and his wife Heidi. Nevertheless, they were initially sceptical about taking over his grandparents' settler house from the 1930s. Its location on the outskirts of the town and the building structure were both great, but its energy system was outdated. "The windows leaked, the boiler was old and the radiators had last been replaced by my father in the 1980s", says Heiko Röder. However, the couple decided to deal with the family legacy and give the house an energy-efficient renovation.

"We want to heat the building sustainably and efficiently in future, so it quickly became apparent that we needed to install a heat pump." Since 2020 the pair of semi-detached houses, where Heiko Röder's father also lives, has been steadily upgraded to make it fit for a sustainable and energy-efficient future.

The first phase of the project saw Heiko's father get a Dimplex heat pump for heating and domestic hot water for his 120 m^2 home. There were also new double-glazed windows and a photovoltaic plant, which now supplies both of the semi-detached houses with free power.

In the second phase of the project, which began in March 2022, a new heating system also had to

be installed in the 100 m² home of Heiko and Heidi Röder. Apart from the new windows, no changes were made to the building structure or interior fittings, and the Röders still heat their rooms using conventional radiators. To guarantee the necessary flow temperatures of 55°C while still achieving a good energy balance, they opted for a Dimplex System E® Pure heat pump system with LA 1118CP. This operates efficiently and very quietly, even at higher flow temperatures, and was able to be installed against the wall of the house in the garden to save space.

New heating system in just three days

Only two core holes through the house wall were necessary for the installation, in order to take the pipes (flow and return, plus the electric wires) into the building to the rear. Inside the house, the old gas heating system was removed, a new circulating pump was installed, the piping in the heating room was brought right up to date and a new 200 l buffer tank was connected.

A separate fuse box was installed for the electrical connection. Commissioning using Easy On with the WPM Touch, including electrical work, took just five hours. As a result, the entire heating system for the semi-detached house was replaced within three days, which may well be a record!
The results have been impressive all the way down the line. In the first half year of operation, the system recorded a seasonal performance factor of just under 5 – an incredibly good figure which surprised even Heiko Röder:
“We expected to improve our energy use and costs, but these figures are really fantastic! The new heat pump has more than paid off for us.”
Heiko even won a little domestic bet with his father: “My father’s heat pump is already considerably more efficient than the old heating system, but with our System E® we’re even more economical!”

Facts and figures:

House constructed: approx. 1930

Conversion time (heating system):
3 days

Heated area: 100 m²

Number of residents and users of heating system: 2

One house – three systems
Perfectly combined into a self-contained heating system

When the Böttcher family bought a more than 40-year-old detached house in Egestorf in the Lüneburg Heath region, it was apparent that the house's energy system gradually needed to be brought up to date. Matthias Böttcher designed his own heating system, aiming for sustainability, independence and reliability.

Matthias Böttcher's heating system is anything but a standard solution. The experienced service engineer for heat pumps designed the system himself as a combination of different components with solar, wood and air as energy sources: "It was important for me to get the best out of different heating systems and achieve maximum energy and cost savings."
Three different systems supply the heat for heating and domestic hot water: a wood gasification boiler, a solar plant and a Dimplex System E® heat pump LA 1118CP. Collectively, they supply heat to five large buffer tanks with a total volume of 4,500 l. The energy comes from a photovoltaic plant with a 16 kilowatt peak, which can also deliver its excess production to two battery storage systems. The Böttchers now only need to use a minimal amount of power from the energy supplier and are largely self-sufficient.

A central PLC controller ensures that the heating system that can currently produce heat the most economically is always the first to be used. The heat pump is the newest system in the combination. For Matthias Böttcher, System E® from Dimplex was the only solution in contention: "This heat pump can be optimally set up for my mixed heat distribution system made up of underfloor heating, panel radiators and

old ribbed radiators. It also deals with the other components of my system with no problems. It does its job exactly when and precisely how my overall system requires it to." This is due to the intelligent Dimplex controller, which provides different function blocks that can be used flexibly. For a combination involving a wood boiler or a solar thermal plant, what is known as renewable mode can be used to block the heat pump if a sufficiently high temperature level is available in the renewable cylinder. In a combination with an existing oil or gas boiler, the heat pump manager is responsible for overall control of the bivalent system and only draws on the fossil fuel heat generator for support if this is necessary. As well as mixed and unmixed heating circuits, the heat pump manager also controls domestic hot water preparation, and even swimming pool heating where required.

A changing system

A heat pump works most efficiently at low system temperatures, which is why the Böttcher family wants to gradually bring their entire home up to the latest standards. Matthias Böttcher has already installed underfloor heating in parts of the building and plans to replace the remaining ribbed radiators with new Dimplex heat pump radiators in future. This will enable the required flow temperatures to be reduced, meaning the heat pump can run even more economically. The old windows will gradually be replaced with new triple-glazed units and the old steel pipes in the cellar will also make way for new copper pipes.

Because his heating distribution system with the old radiators still worked perfectly, Matthias didn't want to replace it straight away. "But I still want energy-efficient heating with a heat pump. This requires the ability to move large quantities of water through the system at an appropriately high flow temperature, and not every device can do that. The System E® heat pump can. And yet it remains efficient and quiet. That's a winning combination for me."

Facts and figures:

House constructed: 1972

Conversion time (heating system):
independent conversion since 12/2021, installation of heat pump (without piping) within 3 hours

Heated area:
250 m² (2 homes)

Number of residents and users of heating system: 5

Technical data

System E® Pure and System E® Comfort

	System E® Pure		System E® Comfort
Order reference	**LA 1118CP**	**LA 1525CP***	**LA 1118BWCP**
Article number	380800	380950	381910
Flow temperature max.	65 °C	70 °C	65 °C
Lower/upper operating limit (heating)	-22 °C to 35 °C	-22 °C to 40 °C	-22 °C to 35 °C
Heat output A-7 / W35 / COP A-7 / W35	11.2 kW / 2.9	~ 14.5 kW / 2.8	11.2 kW / 2.9
Heat output A2 / W35 / COP A2 / W35 (opt.)	4.9 kW / 4.6	~ 12.8 kW / 3.4	4.9 kW / 4.6
Heat output min. A7 / W35 / COP A7 / W35	5.4 kW / 5.6	~ 7.5 kW / 5.2	5.4 kW / 5.6
Cooling capacity A27 / W 18 opt. / max.	4.9 kW / 5.0 8.0 kW / 2.9	~ 7.7 kW / 5.2 ~ 16.5 kW / 4.1	4.9 kW / 5.0 8.0 kW / 2.9
Heating water flow rate / pressure drop according to EN 14511	0.95 m³/h / 18000 Pa	2.0 m³/h / 19410 Pa	0.95 m³/h / 18000 Pa
Connection voltage	3~/N/PE 400 V, 50 Hz	3/N/PE ~400 V, 50 Hz	3/N/PE ~ 400 V, 50 Hz
Sound power level based on ERP / reduced	49 dB (A) / 48 dB (A)	54 dB (A) / -	49 dB (A) / 48 dB (A)
Refrigerant / refrigerant quantity	R290 / 1.3 kg	R290 / 2.04 kg	R290 / 1.3 kg
Dimensions (W x H x D) of outdoor unit / indoor unit	1418 × 1112 × 598 mm 300 × 480 × 145 mm	1418 × 1112 × 598 mm 300 × 480 × 145 mm	1418 × 1112 × 598 mm 740 × 1920 × 950 mm
Weight of outdoor unit/indoor unit	213 kg / 5 kg	~ 258 kg / 5 kg	213 kg / 205 kg
Maximum electric power consumption	5.6 A	~ 9.7 A	5.6 A
Energy efficiency class low / medium temper- ature In a range from A+++ to D	A+++ 196% // A+++ 152%	A+++ 183 % // A++ 139 %	A+++ 196 % // A+++ 152%

*Provisional data ● Coming soon

Dimplex

Maximum flexibility
The right combination for any requirement

When replacing a heating system, the initial situation is different in every individual case. That's why System E® offers maximum flexibility and can be stylishly and easily adapted to the specific circumstances.

It is based on two versions:

System E® Pure (LA 1118CP and LA 1525CP)

+ Air-to-water heat pump for heating and cooling, for a max. building heating load of 25 kW with WPM Touch heat pump manager for optimum flexibility in installation and design
+ Buffer tank and domestic hot water cylinder can be individually adapted to the situation on site
+ Combination with other renewable heat generators or hybrid heating possible

Recommended application:
For demanding comfort requirements
and for more complex systems

System E® Comfort (LA 1118BWCP)

+ Air-to-water heat pump for heating and cooling, for a max. building heating load of 18 kW with Hydrotower including 100 l buffer tank, 300 l domestic hot water cylinder and integrated WPM Touch controller
+ Plug & Play: largely pre-assembled system for easy, safe and fast installation
+ Combination with other renewable heat generators or hybrid heating possible

Recommended application:
For detached/semi-detached houses with radiators or underfloor heating, or mixed installation
with radiators and underfloor heating (1-3 heating circuits)

The game-changing System E®

Renovation with radiators has never been easier: all the advantages at a glance

Renovating with a heat pump is now sure to become your new favourite project, as the flexible System E® heat pump can handle any renovation scenario!

System E® outdoor unit
Sustainable production in Germany, with high-quality, durable metal casing, with no unnecessary plastic panels

Particularly quiet operation
Naturally quiet, even at high heat outputs, thanks to EC axial fan and optimally insulated and vibration-decoupled compressor

R290 natural refrigerant
Eco-friendly with low global warming potential

System E® Comfort version – also available as System E® Pure

System E® Comfort – LA 1118BWCP
In combination with the indoor Hydrotower* with buffer tank and domestic hot water cylinder, you benefit from ready-to-use system hydraulics (Plug & Play) that take up little space and ensure the generator and consumer circuits are hydraulically decoupled.

Simple operation
Integrated colour touch display & app

Flexible expansion
Can be expanded for multiple heating circuits or for bivalent operation with an existing heat generator

Optimised for radiators
Optimised inverter control generates the energy required by the building with a high control accuracy, with the aim of minimising downtimes

*Combination with Hydrotower only possible with LA 118CP

Your advantages with System E®:

1	**The perfect choice when replacing heating systems:** high flow temperatures if required: Even at -10 °C, System E® still provides a maximum flow temperature of 70°C (LA 1525CP) / 65°C (LA 1118CP). Ideal for property renovations with radiators. Special heat pump radiators for optimum comfort.
2	**Flexible system solutions:** the Hydrotower* can be expanded for multiple heating circuits or for bivalent operation with an existing heat generator. Online tutorials downloadable using QR codes provide a simple guide to the work steps for installation of the expansion modules.
3	**Top service & optimum operation:** system checked by an authorised Dimplex system partner or the in-house Dimplex customer service department, with optional warranty extension up to 12 years. A network connection allows online maintenance, remote diagnostics and integration into the heat pump community for system optimisation.
4	**Sustainable, eco-friendly and future-proof:** durable powder-coated sheet metal casing, natural refrigerant, smart grid ready with communication interfaces for integration into modern smart home systems and PV systems. Made in Germany.

Dimplex

An ace up your sleeve for renovations

Reduce flow temperatures with heat pump radiators

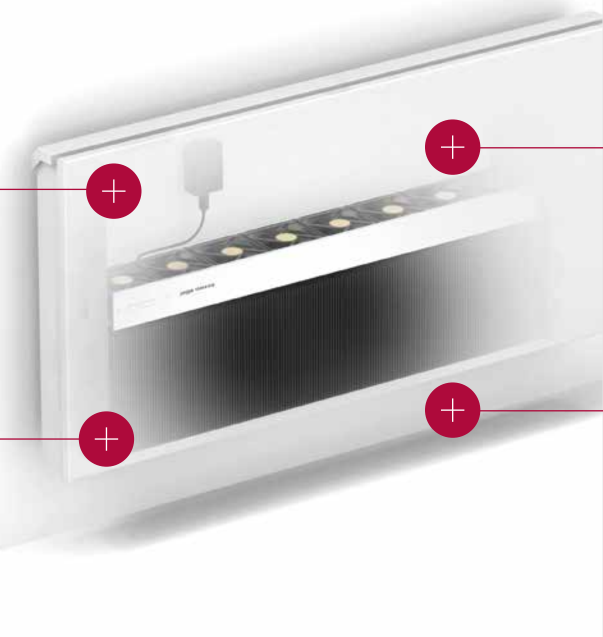
System E® has been developed as a highly efficient solution for providing a pleasant room temperature using conventional radiators. If that's not enough for you, or if you want to save energy by using lower flow temperatures without retrofitting underfloor heating, you now have the perfect alternative:

Heat pump radiators can simply replace conventional radiators and, thanks to small fans, provide the same room temperatures and improved heat distribution in the room with lower flow temperatures. Monotube heating systems are a particular challenge when using heat pumps as they are normally operated at high flow temperatures. Heat pump radiators can extract more heat energy from the heating water at the same volume flow. This enables the overall system temperature to be kept lower.
A key advantage is that in addition to energy-efficient heating, the heat pump radiators can also provide silent cooling, provided the heat pump is suitable (reversible). Dimplex offers two versions: a traditional horizontal design (WPHK) or a space-saving vertical design also suitable for wet rooms or bathrooms (WPHKV).

Dimplex heat pump radiators WPHK and WPHKV

Ultra-fast copper/aluminium high-performance heat exchanger for low flow temperatures and the highest possible heat output. Optimised for building renovations

Control and adjust the radiator using three buttons which can be mounted flexibly on the outside of the casing. The operating modes can be set individually



Twin-Power fans connected in series for a higher air outlet temperature and fast transfer of heat to the room

Radiator optimised for use with heat pumps, in a horizontal or vertical design and with a shallow profile, for heating and silent cooling

Easy to expand

Pre-assembled and pre-wired modules keep things simple

The heat transition brings huge challenges and we all need to tackle them. To minimise the amount of time lost on construction sites, Dimplex has developed a modular system for System E®, which can be expanded quickly, safely and efficiently using pre-assembled and pre-wired modules.

Good to know
Video tutorials are available for every module, explaining and showing the installation process step by step.

Hydrotower MHMC 25Flex expansion module Mixed heating circuit

+ Module for connecting a mixed circuit to the Hydrotower, e.g. for the cooling function
+ Without pump, with fitting piece for replacing the Hydrotower pump
+ Pre-wired and ready to connect
+ With insulation shell
+ Heating and cooling

MHM(C) 25 expansion module Mixed heating circuit

+ Module for connecting a mixed circuit or for cooling applications
+ Suitable for installations with underfloor heating, for example
+ Pre-wired and ready to connect
+ With insulation shell
+ Two versions: heating only or heating and cooling

MHU(C) 25 expansion module Unmixed heating circuit

+ Module for connecting an unmixed heating circuit
+ Suitable for installations with radiators and underfloor heating, for example
+ Pre-wired and ready to connect
+ With insulation shell
+ Two versions: heating only or heating and cooling

VTB 25-2 manifold bar

+ For two heating circuits
+ Insulated

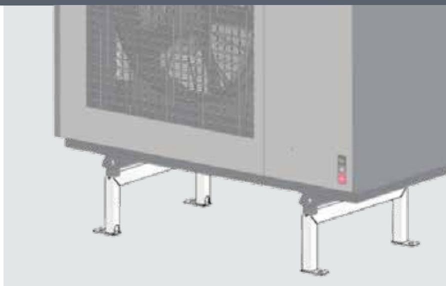
VTB 25-3 manifold bar

+ For three heating circuits
+ Insulated

Comprehensive range of accessories
Intelligent supplementary kits make installation easier

BKS 1115

Floor bracket for raising System E® air-to-water heat pumps installed outside and ventilating underneath them. The installation height of 250 mm allows easy connection of the heat pump on the heating side.



BK SE

Floor bracket for raising System E® air-to-water heat pumps installed outside and ventilating underneath them. The installation height of 250 mm enables easy heating-side connection of the heat pump. Delivery includes covering panels. Colour anthracite-grey smooth (RAL 7016).

VSE connection kit

Flexible stainless steel Wellflex pipes (VSE) for connection of the Hydrotower to the consumer circuit (manifold bar) or the heat pump. Available in lengths 500, 1000, 1500, 2000 and 3000 mm. Supplied with adapter fitting

SWA 1115

Wall connection kit for System E® air-to-water heat pumps installed outside. Design wall panel, extendable from 295 - 460 mm to cover the supply lines installed above ground (electric and hydraulic connections) and protect them against environmental influences. Wall panel can be foam filled. Can be mounted on the rear of the heat pump or the outer wall. Wall panel colour anthracite, building entry sleeves dark grey.

Safety comes first
Safety clearance area and installation conditions

System E® contains the natural refrigerant R290. Because of its flammable properties, Dimplex has created a comprehensive safety concept. **The result is no additional installation work and maximum safety for the system operator.**

The outside safety specifications and safety clearance area must be precisely observed for successful commissioning.
The heat pump must be installed with a distance of at least 30 cm to the wall. If the appliance is installed close to the wall in a corner, the minimum distance for service work must be 80 cm. When used with a floor bracket, the safety clearance area is just 1 m. There must not be any openings (windows, doors, ventilation outlets etc.) or ignition sources (sockets, light switches, lamps, etc.) in this area. Openings in the building in this area must be air-tight. The safety clearance area must not protrude onto neighbouring property or public traffic areas.

Footing template

+ Easy planning and construction of a custom-fit footing for the outdoor unit
+ **www.dimplex.eu/de-de/support/downloads**

R290

Dimplex®

Installation and connections
Flexible installation options

There are various ways to achieve a stable position, optimum condensate drain and invisible pipes. System E® is ideally set up for anything. The optional accessories help to create what is needed. For optimum installation, the heat pump should be installed in a raised position to reduce the safety clearance area to 1 m. This can be achieved using a strip footing combined with the Dimplex floor bracket. Or using an existing or new footing constructed in line with the foundation plan.

Video tutorials

+ Video tutorials are available for every installation step, explaining and showing the installation process step by step.
+ Available online at any time

View tutorial

Variant 1: Connecting the pipes to the rear

This version is suitable if the **indoor unit in the house is located at the same level as the outdoor unit**, e.g. in a technology room. The System E® is supplied in this configuration ex works.

The condensate is either discharged freely downwards, or via a pipe into the building and then via a siphon into the sewer system.

The feed and return, and the electric wires, can be routed into the building to the rear using the VSE connection kit and neatly concealed using the wall connection plate.

Variant 2: Connecting the pipes downwards

This version is suitable if the **indoor unit in the house is located lower than the outdoor unit**, e.g. in the cellar.

The condensate is either discharged vertically downwards into a footing with gravel filling, or it can be discharged into a dirt, rain or drainage duct using a condensate pipe with siphon installed in the ground.

The feed and return, and the electric wires, can simply be routed downwards and invisibly into the building using the connection box.

Tailored to your individual requirements
Choose the Dimplex service that best meets your specific needs.

Our Dimplex service does not end at commissioning. Dimplex offers a comprehensive range of individually bookable services for System E® to guarantee greater peace of mind and comfort during operation of the system. Whether you want all-round peace of mind or a digital, cost-effective option – choose what suits you best. In our COMPLETE packages, Dimplex will even pay your electricity costs* – for maximum cost security. A successful system check and ongoing warranty are required for taking out a service package. An online connection is required for digital maintenance.

Why the Dimplex service is worth it:
+ All-round peace of mind, incl. maintenance, travel costs, material, refrigerant and appointment service
+ Choose between two, five, ten or twelve-year warranties
+ Choose between digital maintenance and on-site service according to your preference
+ Warranty upgrade of up to twelve years possible for already installed systems
+ Appointment service: agreement of required maintenance by Dimplex
+ Additional electricity costs covered if a fault occurs (for COMPLETE packages)
+ Choose between a one-time or annual payment

All-round peace of mind

Personal, on-site service

Our popular all-round peace-of-mind service packages with **on-site services**:

+ Dimplex **warranty extensions**
+ Additional maintenance with leakage tightness test (number varies depending on package)

Comfort package — 5 year warranty
On-site service – personal and competent

Premium package — 10 year warranty
For higher maintenance expectations

NEW

The DIGITAL PLUS +

Digital - the cost-effective choice!

Our new **digital services** for maximum flexibility and peace of mind:

+ Dimplex **warranty extensions**
+ No physical presence required during maintenance work
+ No disruptions to operation during maintenance
+ Optimal "first aid" via online diagnosis

Comfort Digital PLUS — 5 year warranty
Low-cost and simple

Premium Digital PLUS — 10 year warranty
Premium performance for a low price

NEW

Simply COMPLETE ++

We go one step further!

The all-round peace-of-mind combination of **on-site & digital services:**

+ Dimplex **warranty extensions**
+ All advantages of digital services
+ Special services
+ **Dimplex will cover the costs of your electricity*!**

Comfort COMPLETE — 5 year warranty
Fully covered with complete peace of mind

Premium COMPLETE — 10 year warranty
Maximum peace of mind

For further details see Dimplex service price list

Small tip
It is possible to upgrade to the Premium version of the selected package at any time!

Dimplex

Warranty of up to twelve years
Available with our
maintenance PLUS services.

Regular maintenance helps extend the service life of your heat pump system. Maintenance is available not only as part of our service packages, but also as individual services.

	NEW
Peace of mind with on-site service	**Peace of mind, digital and low-cost**
Standard Maintenance Peace of mind with on-site service	**Digital Maintenance** Peace of mind, digital and low-cost
Maintenance PLUS Maximum peace of mind with on-site service **12** year warranty	**Maintenance Digital PLUS** Maximum peace of mind, digital and low-cost **12** year warranty

Smart
Always stay on top of your heat pump's efficiency with the Dimplex Home app – and receive instant notifications if a technical fault occurs!

Request after-sales service online:

1. Scan the QR code or follow the link **www.dimplex.eu/service**
2. Register your address/contact details and device type
3. Select your service package and desired payment method
4. Click "Place a binding order now" and submit your order to Dimplex
5. Dimplex creates the warranty certificate, confirms the service agreements and takes care of everything else

Dimplex – Experience Better Living

We offer smart system-based solutions that boost your sense of well-being

Dimplex's smart system-based solutions minimise energy consumption whilst maximising your quality of life. As one of the leading international manufacturers in the fields of heating, cooling and ventilation, Dimplex has been by your side for 50 years as a partner you can rely on.

Whether it's electric heat, heat pumps, domestic hot water or ventilation – we offer innovative, sustainable solutions that provide comprehensive air-conditioning for the electrically powered houses of the future. We don't focus on standalone products, but instead strive for smart system-based solutions that boost your well-being each and every day.
Our mission is to supply durable products and provide a reliable service you can count on. No matter whether it's a new build or renovation project, we develop solutions that show their full potential when combined, and that fit together like cogs in a wheel, right down to the smallest detail. As a strong service partner at your side, we work hand in hand with you to shape the future of heating, cooling and ventilation.

We would be happy to advise you.
Find out more: www.dimplex.eu

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