

 Heating  Hot water  Renewables

aroTHERM plus: air source heat pump



 **Vaillant** Comfort for your home

Air source heat pump

Best suited for:



New build, renovations
and replacement



+++

One or more
people



Two plus bathrooms



What are the advantages?

- **Higher hot water demand capability**
High flow temperatures
- **Sustainable**
Reduce your carbon footprint with a GWP of just three
- **Eligible for government incentives**
Such as BUS
- **Energy efficient**
With the highest ErP rating save money on your fuel bill*
- **Designed for a peaceful home**
With noise levels as low as 54 dB(A)
- **App controlled**
When installed with VR 900 or sensoNET control

*When compared to replacing an oil system

What is an air source heat pump?

Air source heat pumps extract thermal energy (heat) from the outside air and convert this into heating and hot water for your home. They are designed to work in cold temperatures and are suitable for a range of homes, from a small apartment* to a large detached property. The heat pump needs to be located outside the property: it's very quiet in operation, being no louder than a domestic fridge.

Air source heat pumps do require electricity to operate, and approximately 75% of the energy required is generated from the outside air, with only 25% being required from electricity. This means that 75% of the energy you use will be from a renewable source, which will reduce your emissions and CO₂ impact.

*Air source heat pumps need to be located outside. They must be installed on a solid base or structurally secure wall. A qualified and reputable renewables installer will be able to advise you if your home is suitable for an air source heat pump.

aroTHERM plus

air source heat pump outdoor unit



*Up to seven years when installed by a registered Vaillant Advance Partner

The aroTHERM plus provides heating and hot water from renewable energy. It's perfect for both new build and retrofit properties that demand low running costs, high efficiency, and an environmentally friendly solution.

The aroTHERM plus is an outdoor unit which comes in a variety of outputs to suit every property.

Heat source	Air
Outputs (kW)	3.5, 5, 7*, 10** and 12kW**
Usage	New building, renovation, replacement
Heat emitters	Underfloor heating and/or radiators
House size	Up to 300m ²
Decibel level (sound power)	54, 55*, 60dB**
ErP rating	A+++ / A++ (A+++ - D)
SCoP rating	Up to 5.03

The benefits of the aroTHERM plus

- With the aroTHERM plus heat pump you can reduce your carbon footprint and contribute to climate protection by already meeting future building regulations
- The aroTHERM plus system is suitable for a broad range of properties with underfloor heating and/or a radiator system. Depending on the heat demand and living space of your home, it will be suitable for retrofit projects
- Designed for a peaceful home, the aroTHERM plus system has very low sound emissions: reassuring for you and your neighbours
- With sound power as low as 54dB(A) the aroTHERM plus 3.5, 5, 7 and 12 kW outputs have been accredited with the Quiet Mark.
- ErP A+++ rated with a SCoP up to 5.03, your monthly running costs for heating and hot water can be reduced by more than 10% compared to a replaced oil heating system
- Compatible with app-based controls to allow you to control your heating on the go



Indoor unit options

Air source heat pumps have an outdoor and an indoor unit for every installation. The aroTHERM plus has been developed to work in harmony with a variety of indoor units to suit your installation.

The uniTOWER indoor unit is a compact solution with all system components inside one tall unit, ideal for properties with limited space.

The hydraulic module has all hydraulic components inside one unit allowing the heat pump to provide heating. If hot water is required, the hydraulic module can easily connect to a new or existing heat pump hot water cylinder.

The heat pump interface is ideal for customised applications where the heat pump interface acts as the central point of the system connecting to a back-up heater, expansion vessel, heat exchanger module, and heat pump hot water cylinder if hot water is required.



uniTOWER

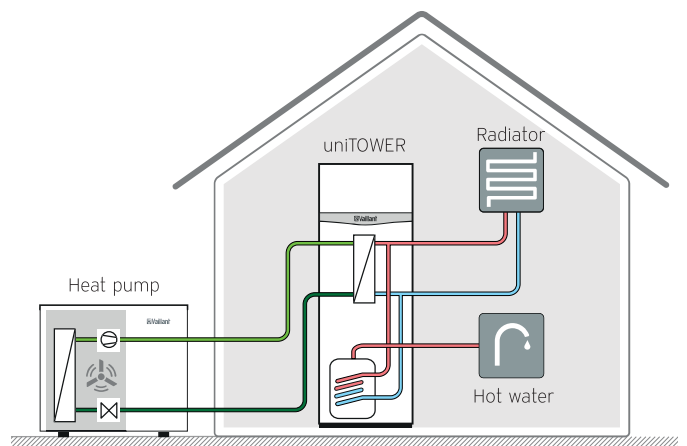


Hydraulic
module



Heat pump
interface

aroTHERM plus with uniTOWER



Benefits of aroTHERM plus with uniTOWER

- Heating system components integrated within the uniTOWER
- Thanks to the compact design, the uniTOWER is about the size of a fridge freezer
- 190 litre cylinder capacity delivers up to 380 litres of hot water for up to five people including the use of rainfall showers
- Quick and easy installation within just one-day

Products required for this solution:

- 1) aroTHERM plus
- 2) uniTOWER
- 3) Controls