Air/Water Heat Pump NIBE™ SPLIT
A new generation of heat pumps

Features of NIBE™ SPLIT

- Optimal annual heating factor thanks to the inverter controlled compressor
- Outdoor unit with compact dimensions
- Indoor and outdoor unit connected with refrigerant piping
- Integrated coil water heater in ACVM 270 (stainless steel approved for all European water qualities)
- Scheduling for individual demands
- Prepared for control of two heating systems
- Integrated active cooling function
- Indoor unit with environmentally friendly cellular plastic insulation for minimal heat loss
- Possible to connect external heat sources
- Low energy DC circulation pumps
- MCS approved

Heating when you need it
cooling when you don’t

NIBE SPLIT is a complete, all-in-one energy-efficient heating and cooling system that gives you a comfortable indoor climate – safely and economically, with low CO₂ emissions.

The indoor module is an integrated hot water heater, immersion heater, circulation pumps and climate control system.

Heat is retrieved from the outdoor air by an outdoor module (AMS 10), where the refrigerant, which circulates in a closed system, transfers heat from the heat source (outdoor air) to the indoor module (ACVM 270). There is no need for bore holes or coils in the ground.
System description
NIBE SPLIT is a system for heating, hot water and cooling. The heating principle can be explained as follows:
1. The refrigerant in AMS 10 retrieves heat from the outdoor air then compresses it, which increases its temperature.
2. The hot refrigerant (now in gas state) is routed into ACVM 270.
3. The refrigerant releases the heat for further distribution in the system.
4. The refrigerant (now in liquid state) is routed back to AMS 10 and the process is repeated.

By reversing the process, and allowing the refrigerant in the AMS 10 to retrieve the heat from the water and release it into the outdoor air instead, the heat pump can also provide cooling.

The ACVM 270 determines when the AMS 10 needs to work and when it does not, using the collated data from the temperature sensor.

When extra heat is needed, the ACVM 270 can connect to an additional heat source such as an internal immersion heater or similar.

Docking capabilities
NIBE SPLIT connects easily with other energy sources such as solar panels or an existing boiler – so you can access additional energy when needed.