

Water*
60 °C

AIR - WATER

Comfortable

Traditional heating by hot water in radiators, under-floor or fancoils allows year-round comfort.

Economical

Warmth collected from the air allows large heating economy. No fossil energy is required.

Ecological

No combustion, no pollutants: geothermal energy is a renewable energy.



Easy installation and commissioning.

Simple

Small space required, optimised quality price ratio.

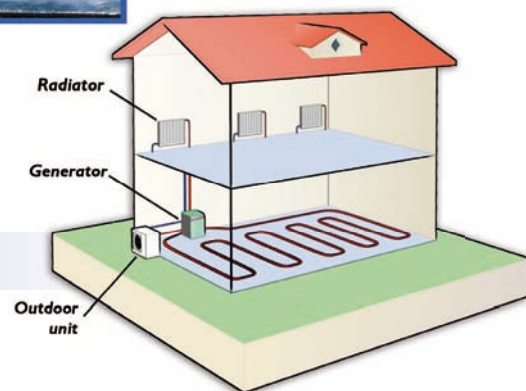
And the "plus"



AVENIR ÉNERGIE
GEOTHERMAL & AIR HEAT PUMPS

Member of the Danfoss Group

*: depending of test conditions (see data from table of Air-Water Heat Pump Performances)



Advantages

This system can be used in a house with a traditional heating by hot water in radiators, under-floor or fancoils. Cooling is also an option when using under-floor or fancoils.

Simplicity & comfort

The house can be entirely equipped with a traditional heating by hot water. The heat pump has always the cooling option.

Specific advantages

Small space required, easy installation and commissioning, optimised quality price ratio. The major components are situated under cover inside the house.

In option

- Swimming pool heating (external kit),
- Domestic hot water (external kit).

Technical characteristics

A generator installed in a technical room in the house.

This generator is equipped with one or two refrigeration compressors, one heat exchanger, one thermal expansion valve and safety components.

A compact outdoor unit

installed outside the house. This unit is equipped with louvered fins, and of at least one variable speed fan.

An electrical set including all control and security accessories, mounted inside the generator and easily accessible.

A water circuit including a circulator pump, an expansion vessel, a manometer and a safety blow-off valve, all assembled in the generator.

A thermostat, to accurately control the ambient room temperature.

| Indoor unit: model | 8 | 10 | 12 | 15 | 17 | 12 | 15 | 17 |
|----------------------------------------------------------------------|------------------------------|-------|-------|-------|-------------------|------------------------------|-------|-------|
| | <i>Single-compressor</i> | | | | | <i>Tandem</i> | | |
| Calorific power (kW) Air at +7 °C, water at 30 / 35 °C | 8900 | 11150 | 12900 | 16100 | 18800 | 13000 | 16000 | 17800 |
| Absorbed electrical power* (kW) Air at +7 °C, water at 30 / 35 °C | 2280 | 2850 | 3300 | 4120 | 4820 | 3333 | 4102 | 4560 |
| Power supply (V/Hz/Phase) In option | 250 / 50 / 1 400 / 50 / 3 | | | | 400 / 50 / 3 — | 230 / 50 / 1 400 / 50 / 3 | | |
| Refrigerant fluid | R407C | | | | | | | |
| Heat exchanger type | Inox plates | | | | | | | |
| Compressor type | Scroll spiro-orbital | | | | | | | |
| Dimensions L × H × P (mm) | 610 × 1040 × 560 | | | | | | | |

* : Indoor & outdoor units together

| Outdoor unit: model | 8 | 10 | 12 | 15 | 17 | 12 | 15 | 17 |
|-----------------------------------|--------------------|------------------|----|-------------------|----|------------------|-------------------|----|
| Fan absorbed electrical power (W) | 307 | 138 + 156 | | 2 × 270 / 2 × 440 | | 138 + 156 | 2 × 270 / 2 × 440 | |
| Power supply (V/Hz/Phase) | 230 / 50 / 1 | | | | | | | |
| Refrigerant fluid | R407C | | | | | | | |
| Heat exchanger type | with louvered fins | | | | | | | |
| Dimensions L × H × P (mm) | 996 × 922 × 580 | 940 × 1260 × 555 | | 1842 × 922 × 580 | | 940 × 1260 × 555 | 1842 × 922 × 555 | |

