

AQUAHEAT ADVANCE SPLIT

HEAT PUMP INVERTER
SPLIT SYSTEM

Airwell



Airwell



Indoor unit



Outdoor unit 005

PRODUCT ADVANTAGES

- INVERTER technology
- R410A refrigerant
- 2 versions available: heating only / reversible
- Optional domestic hot water production
- Designed to fit with a new heating installation or an existing one, in conjunction with a boiler
- Up to 12m pipe length between indoor and outdoor units.
- Low starting intensity thanks to the Inverter compressor.
- Reduced cluttering overall dimensions.
- Control of all the parameters thanks to a big display on the indoor unit.
- COP (coefficient of performance) superior to 4
- Heating mode operating down to outdoor temperatures of -15° C.
- Leaving water temperature up to +55° C in heating mode.
- Low operating sound level
- Optimized access to the components eases the installation and the maintenance
- Inverter regulation with water law ensures comfort and optimum COP
- Optional wired room thermostat

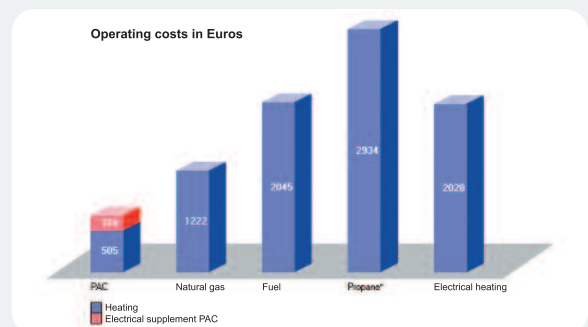
SIGNIFICANT SAVINGS

The heat pump draws the free energy of the environment and needs little electricity to function. Among 100% of its heating needs, up to 75%* come from outdoor calories while 25%* are provided by electricity.



ENERGY SAVINGS

The most energy consuming part of the system is the compressor, which needs electrical energy to operate. For 1 electrical kWh consumed, AQUAHEAT ADVANCE SPLIT heat pumps restore up to 4 kW/h* of heat in winter, depending on outdoor temperature (the heating mode is operating down to outdoor temperatures of -15°C).



A FULLY-EQUIPPED PRODUCT

- Protecting grille for the exchanger
- Electrical board and regulator
- Drain-cock
- Phonic insulation of the compressor
- 3-speeds circulator
- Expansion tank
- Built-in electrical additional heater (depending on the version)
- Designed to fit with existing heating installation in conjunction with a boiler
- Presso-static protection
- Safety valve

* Indicative data depending on the installation and the thermic quality of the building

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Outdoor unit 008



Outdoor unit 012 & 014



CONTROL BOARD

As a user-friendly interface of dialogue with the regulation of the heat pump, the keyboard simplifies the commissioning and the maintenance of the system, by offering a detailed multi-language display of the parameters of regulation and operation.



COMMUNICATING ROOM THERMOSTAT

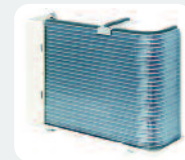
Recommended option.

This wired thermostat enables the user to optimize his comfort and the regulation of the installation, with a function of auto-compensation of the water law in relation to indoor temperature.



INVERTER REGULATION

It constantly adapts the compressor's speed and the temperature of the water in order to ensure the heating comfort and to optimize energy savings.



HYDROPHILIC TREATMENT OF THE EVAPORATOR

"Bluefin", the hydrophilic treatment of the fins exchanger, eases the flow of the condensate s, protects from corrosion and guarantees high performances, whatever the weather.



ROTARY AND SCROLL DC INVERTER COMPRESSOR

The Inverter technology enables to adapt the operation of the compressor to the heating needs, to give priority to the use of its best efficiency range and thus, to maximize its performance.

For 005/008 models, a built-in ROTARY compressor increases the flexibility of use.

For 012/014 models, a built-in SCROLL compressor enables the heat pump to operate in variable speed and thus to be less energy consuming.

ADVANCED POSSIBILITIES

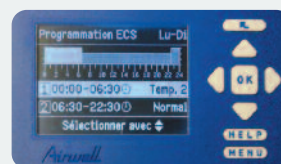
The wide screen of the control board, which is connected to the indoor module of the heat pump, offers comfort for the setting and viewing of the parameters:



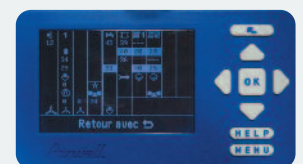
Setting of the water law



Heating timer



DHW timer



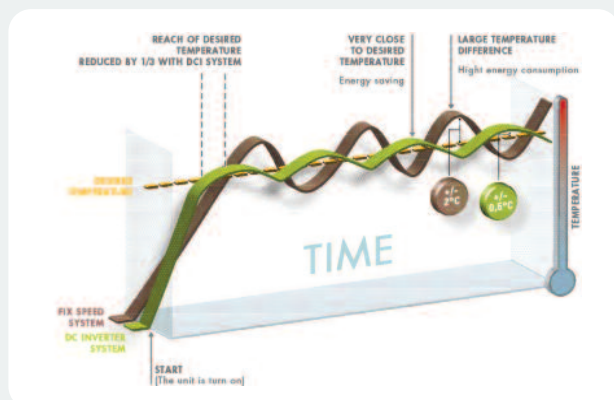
Overall view of the installation

AQUAHEAT ADVANCE SPLIT

Heat Pump Inverter Split system

THE AQUAHEAT ADVANCE SPLIT IN A FEW WORDS:

- 4 sizes available: **5.3 kW - 8.1 kW - 12 kW - 14.5 kW**
- COP (outdoor temperature 7°C, water system 30/35°C): **4.25 - 4.1 - 4.4 - 4.3**
- COP (outdoor temperature 2°C, water system 30/35°C) > 3,1, complying with the **ECO LABEL** certification
- Single-phase power voltage
- Plates heat exchanger
- 2 versions available: heating only / reversible
- Adapted to the markets of new housing and renovation
- Heating mode operating down to outdoor temperatures of -15°C.
- Leaving water temperature up to +55°C in heating mode, down to outdoor temperature of -15°C
- Silent running from 37 dB(A) to 42 dB(A)
- Optional domestic hot water
- Optional wired room thermostat



DC INVERTER

THE INVERTER TECHNOLOGY

Our heat pumps are equipped with the INVERTER technology. The Inverter technology enables to adapt the operation of the compressor to the heating needs, to give priority to the use of its best efficiency range and thus, to maximize its performance. Thanks to the INVERTER technology, you will have a heat pump with higher performance coefficients.

HIGH PERFORMANCE SPLITS

Choosing the AQUAHEAT ADVANCE SPLIT means opting for heat pumps with a wide operating range.

Our Split Inverters can provide from 1.2 kW to **16 kW** at an outside temperature of +7°C and from 3.5 kW to 9.41 kW at an outdoor temperature of -7°C.

THE HIGHEST COPs

The COPs of the AQUAHEAT ADVANCE SPLIT are among the best of the market. Our heat pumps have **COPs superior to 4 and that can reach 4.4**, at an outside temperature of 7°C and a leaving water temperature of +35°C.

VERY LOW OPERATING SOUND LEVELS

The AQUAHEAT ADVANCE SPLIT is remarkable for its very low operating sound levels.

The sound pressure of the heat pumps is between **37 dB(A)** and **42 dB(A)** at 5m (directivity 2), it ensures a silent running.



R410A REFRIGERANT

AQUAHEAT ADVANCE SPLIT heat pumps are equipped with the R410A refrigerant, which is associated with the Inverter technology.

In order to improve the quality of its products; the company chose the R410A refrigerant, which enables an eco-friendly operation of its new heat pumps.

NF PAC
CERTIFICATION
IN PROGRESS

EHPA QL
CERTIFICATION
IN PROGRESS

AQUAHEAT ADVANCE SPLIT

Heat Pump Inverter Split system

3 DESIGNS & 4 SIZES FOR THE OUTDOOR UNITS

The AQUAHEAT ADVANCE SPLIT is available in 4 different sizes: 5 - 8 - 12 - 14.

The capacity of the heat pumps vary from **1.2 kw** to **16 kw**.



A COMPLETE INDOOR UNIT

- The indoor unit of the AQUAHEAT ADVANCE SPLIT is designed to ensure an optimized running:
 - Electronic control board with a LCD screen
 - Plates heat exchanger
 - 3 ways valve (DHW management)
 - 10L expansion tank
 - Circulator pump
 - Electrical additional heater (depending on the version)
- Its compact aspect and its lightness make its installation easier.

2 VERSIONS

The AQUAHEAT ADVANCE SPLIT is available under 2 versions:

- Heating only
- Reversible + built-in 9 kW electrical supply point (3 levels)

A FULL RANGE OF ACCESSORIES

With the AQUAHEAT ADVANCE SPLIT, the user enjoys a wide choice of accessories. They are all optional:

- Wired room thermostat
- Domestic hot water tank
- Buffer tank
- Support legs (shock absorber)

Wired room thermostat



140 L buffer tank



Support legs



THE OPTIONAL DOMESTIC HOT WATER TANK

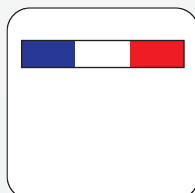
This tank enables the consumer to enjoy the AQUAHEAT ADVANCE SPLIT exceptional efficiency when producing domestic hot water and therefore, maximizing energy savings.

The hot water is heated by the heat pump until it reaches 50°C, and then the electrical resistance completes the heating process until the requested temperature is reached.

- Production of domestic hot water for the whole family thanks to a 390-liters volume
- Adapted to large hot water consumption, with the use of a 4,1 m² streamer exchanger
- 2.6 kW electrical additional heater
- Cathodic protection with magnesium anode
- 66cm diameter (insulating jacket is installed on site) that enable to go through 80 cm doors

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AIRWELL: FRENCH HEAT PUMPS MAKER FOR MORE THE 30 YEARS

Moreover, AIRWELL ensures a 1-year
labour warranty.

| | | ADVANCE SPLIT 005 | ADVANCE SPLIT 008 | ADVANCE SPLIT 012 | ADVANCE SPLIT 014 | |
|--------------------------------|-----------------------------------------------------------------|-------------------|---------------------------------|-------------------------------|---------------------------------|-------------------------------|
| Water system at 30/35°C | | | | | | |
| Capacity | Heating capacity at 7°C, water system at 30/35°C ⁽¹⁾ | kW | 5.3 (from 1.2 to 5.7 kW) | 8.1 (from 2 to 9.5 kW) | 12 (from 5.3 to 13.5 kW) | 14.5 (from 6 to 16 kW) |
| | COP * | | 4.25 | 4.10 | 4.40 | 4.30 |
| | Heating capacity at outside temperature of 2°C | kW | 3.50 | 6.20 | 9.00 | 11.00 |
| | COP at outside temperature of 2°C* | | 3.15 | 3.20 | 3.25 | 3.20 |
| | Heating capacity at outside temperature of -7°C | kW | 3.5 kW | 5.89 kW | 8.91 kW | 9.41 kW |
| | COP at outside temperature of -7°C* | | 2.65 | 2.32 | 2.55 | 2.50 |
| | Outdoor temperature operating limits | °C | -15°C | -15°C | -15°C | -15°C |
| | Min/max water leaving temperature | °C | 25°C/55°C | 25°C/55°C | 25°C/55°C | 25°C/55°C |
| Modules | Sound pressure at 5 m (directivity 2) | dB(A) | 37 | 40 | 41 | 42 |
| | Sound power level | dB(A) | 59 | 62 | 63 | 64 |
| | Compressor type | | Rotary DC Inverter | Twin Rotary DC Inverter | Scroll DC Inverter | Scroll DC Inverter |
| | Weight of the outdoor module | kg | 39 | 64.5 | 110 | 110 |
| | Dimensions of the outdoor module (WxDxH) | mm | 870x290x610 | 1040x340x865 | 900x340x1255 | 900x340x1255 |
| | Weight of the indoor module | kg | 30 | 30 | 35 | 35 |
| | Dimensions of the indoor module (WxDxH) | mm | 480x360x850 | 480x360x850 | 480x360x850 | 480x360x850 |
| | Electrical supply point | kW | 9 (3 levels) | 9 (3 levels) | 9 (3 levels) | 9 (3 levels) |
| | Heat exchanger type | | Plate | Plate | Plate | Plate |
| | Hydraulic connection | Water inlet | inches | 1 1/4" | 1 1/4" | 1 1/4" |
| Water outlet | | inches | 1 1/4" | 1 1/4" | 1 1/4" | 1 1/4" |
| Expansion tank | | liters | 10 | 10 | 10 | 10 |
| Pipe line | Suction pipe diameter | inches | 7/8 | 7/8 | 7/8 | 7/8 |
| | Liquid pipe diameter | inches | 5/8 | 5/8 | 5/8 | 5/8 |
| | Max length | m | 25 | 30 | 30 | 30 |
| | Max height | m | 10 | 15 | 15 | 15 |

(1) Heating capacity for outdoor temperature of 7°C, water system at 30/35°C
* according to EN 14511 norm

Preliminary data that can change without notice.

Airwell

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