

# PAC HT SPLIT

## HEAT PUMP SPLIT HIGH TEMPERATURE

Airwell

Just feel well



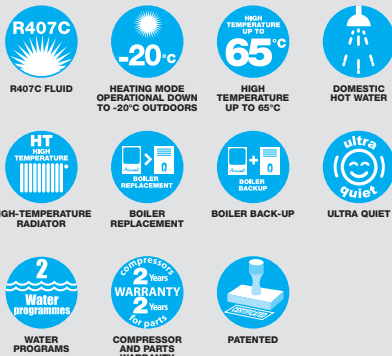
**COP up to 4.52**



### + PRODUCTS

- Very low noise level: 65 dB(A) for outdoor unit, 41 dB(A) for indoor unit.
- Very high performance, COP up to 4.52.
- Aesthetics and aluminium finish.
- Light and compact wall unit (smaller in size than a boiler).
- Large digital display with diagnosis aid.

### FEATURES



- Ideal for renovations (HT) as well as for new construction (LT).
- Constant operation at +65°C with -20°C outdoors.
- 6 to 18 kW of heating over 3 models.
- A single refrigerant fluid: R407C.
- “Antifreeze” evaporator, up to 4 hours without defrosting.
- Inverter fan motor: energy saving.
- No risk of frost (water system in the building): not drop performance related glycol installation.
- Easy maintenance.
- Possibility of installing heat pumps in cascade.
- Patents Airwell: two-stage compression and oil management system.
- “Plug and play” system: easy for boiler replacement.
- Heating only.



### UNIQUE EXCHANGER



A heat exchanger with 4-mm heat sink spacing to optimize defrost:

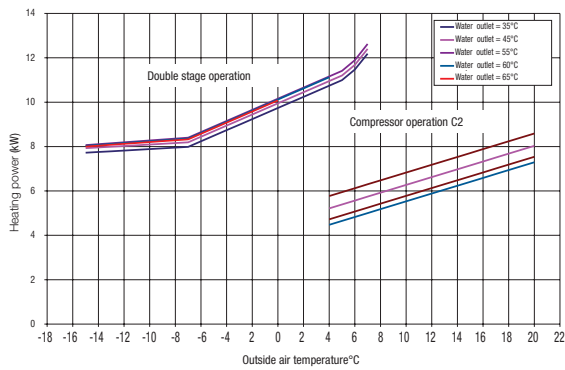
- Up to 4 hours without defrosting retaining 96% of the heating power.
- 2 hours without defrosting in the most adverse conditions.

# PAC HT SPLIT

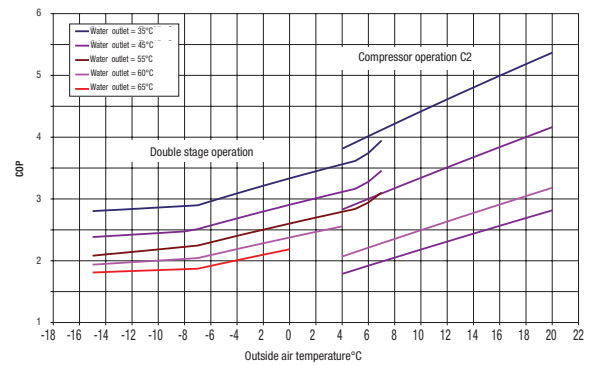
## HEAT PUMP SPLIT HIGH TEMPERATURE

### PAC HT SPLIT 12-6 PERFORMANCES

#### HEATING

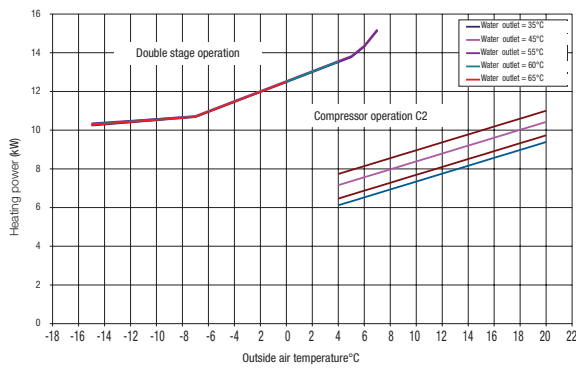


#### COP

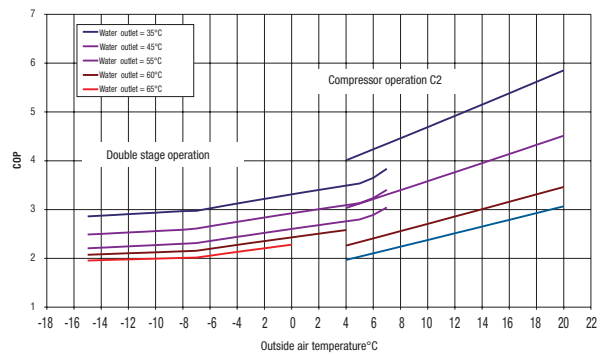


### PAC HT SPLIT 14-7 PERFORMANCES

#### HEATING

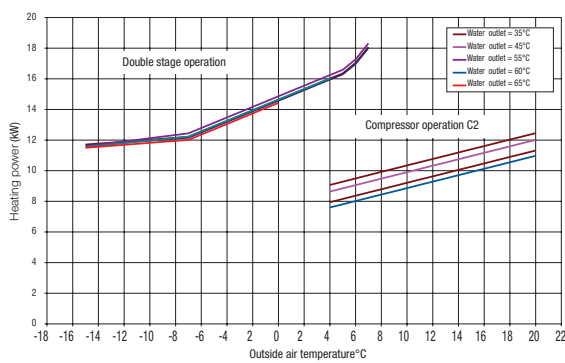


#### COP

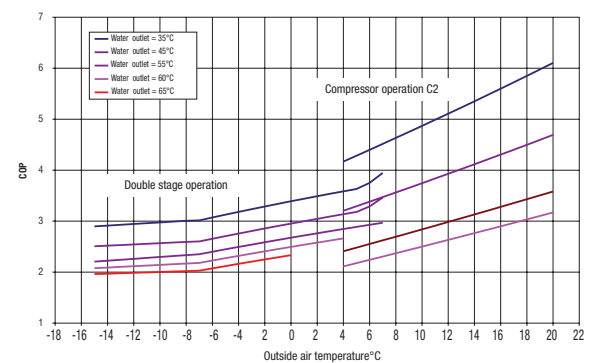


### PAC HT SPLIT 18-9 PERFORMANCES

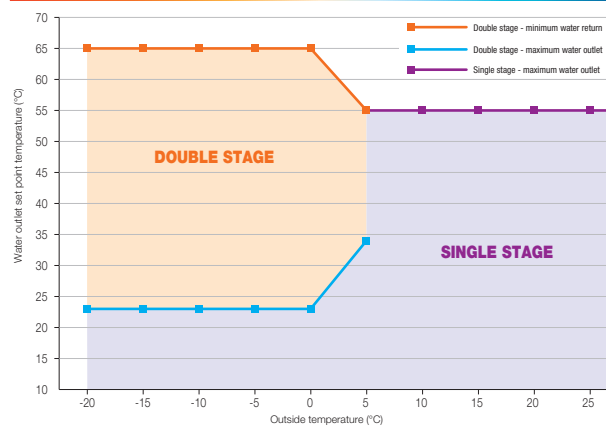
#### HEATING













#### COP



### OPERATING LIMITS



## MAIN OPTIONS AND ACCESSORIES

| Photo / Part number  | Accessory  | Function  |
|--|--|---|
| <b>HYDRAULICS</b>  |  |   |
| 7ACFH0423  | Shut-off valve with pressure tap                 | Control valve   |
| <br>7ACFH0666   | Settling filter (pot)                            | Protect the heat pump from sludging and preserve optimum thermal exchange.  |
| 7ACFH0278  | Water filter                                     |   |
| <br>7ACFH0663   | 140-litre buffer tank / mixing tank              | It protects the heat pump against short cycles that can reduce the useful life of the compressors and improves operation during defrosting phases.  |
| <b>SYSTEM</b>  |  |   |
| <br>7ACFH0543   | Three-way valve                                  | Three-way valve alone for domestic hot water management or boiler back-up   |
| <br>7ACFH0662  | 300 L domestic hot water tank kit                | optimised with the operation of the PAC HT<br>- Programmable anti-legionellosis function<br>- Management of the three-way valve / circulator pump couple<br>- 3.1 m <sup>2</sup> exchange surface |
| <br>7ACFH0789<br>(for existing hot water tank with high outlet) | Kit for electrical DHW tank - Top outlet         | Plate exchanger and circulator pump kit for domestic hot water, top outlet (sensor supplied for installation in a thimble)  |
| 7ACFH0801<br>(for existing hot water tank with low outlet)   | Kit for electrical DHW tank - Bottom outlet      |   |
| <br>7ACFH0665   | On-line electric heater - 2/4/6 kW               | Installation inside the building, offers two power stages (2 and 4 kW, or 6 kW in total). Provides extra heating when the heating demand is greater than the capacity of the heat pump.           |
| <br>7ACFH0490 (kit)<br>7ACFH0491 (alone)                        | Hydraulic connection kit with three-way valve    | For connecting to the boiler, available alone or in a complete kit with the three-way valve. Made up of a set of assembled pipes and valves, a set of connectors with sphericalconical seat.      |
|  | Hydraulic connection kit without three-way valve |   |
| <b>INSTALLATION AND REGULATION</b>   |  |   |
| <br>7ACEL1592   | Wired ambient thermostat                         | - Adjustment of ambient temperature<br>- Daily or weekly programming<br>- Holiday programming, no-frost mode  |
| <br>7ACEL1593   | Remote wireless ambient thermostat unit          | - Adjustment of ambient temperature<br>- Daily or weekly programming<br>- Holiday programming, no-frost mode  |
| <br>7ACTL0472   | Shock-absorbing support feet                     | Raise the heat pump by 10 cm, allow the evacuation of condensates and defrosting water.   |
| 7ACEL1535  | Three-phase starting intensity limiter           | Standard on single-phase  |

## PAC HT SPLIT TECHNICAL DATA

| Models   |                                 | PAC HT SPLIT 12-6 | PAC HT SPLIT 14-7        | PAC HT SPLIT 18-9        |                          |
|--|---------------------------------|-------------------|--------------------------|--------------------------|--------------------------|
| Part number indoor units                         |                                 | 7OG160001         | 7OG160001                | 7OG160002                |                          |
| Part number outdoor units 1~230V-50Hz            |                                 | 7SP063001         | 7SP063003                | -                        |                          |
| Part number outdoor units 3~400V-50Hz            |                                 | 7SP063002         | 7SP063004                | 7SP063005                |                          |
| SCOP/Energy label (average climate)              |                                 | 3.79/A+           | 3.85/A+                  | 3.87/A++                 |                          |
| <b>OUTDOOR AIR REGIME +7°C / +6°C HUMID BULB</b> |                                 |                   |                          |                          |                          |
| Water regime 30/35°C                             | Single compressor heating power | kW                | 6.30                     | 7.40                     | 8.98                     |
|  | Input power                     | kW                | 1.53                     | 1.74                     | 2.10                     |
|  | <b>COP</b>                      |                   | <b>4.12</b>              | <b>4.25</b>              | <b>4.28</b>              |
| Water regime 45°C                                | Single compressor heating power | kW                | 5.74                     | 7.77                     | 9.27                     |
|  | Input power                     | kW                | 1.86                     | 2.35                     | 2.67                     |
|  | COP                             |                   | 3.09                     | 3.31                     | 3.47                     |
| Water regime 55°C                                | Bi-compressor heating power     | kW                | 5.25                     | 7.08                     | 8.58                     |
|  | Input power                     | kW                | 2.30                     | 2.85                     | 3.27                     |
|  | COP                             |                   | 2.28                     | 2.48                     | 2.62                     |
| <b>OUTDOOR AIR REGIME +2°C / +1°C HUMID BULB</b> |                                 |                   |                          |                          |                          |
| Water regime 35°C                                | Bi-compressor heating power     | kW                | 10.31                    | 13.00                    | 15.32                    |
|  | Input power                     | kW                | 2.99                     | 3.82                     | 4.39                     |
|  | COP                             |                   | 3.45                     | 3.40                     | 3.49                     |
| <b>OUTDOOR AIR REGIME -7°C / -8°C HUMID BULB</b> |                                 |                   |                          |                          |                          |
| Water regime 35°C                                | Bi-compressor heating power     | kW                | 8.21                     | 10.89                    | 12.46                    |
|  | Input power                     | kW                | 2.78                     | 3.59                     | 4.05                     |
|  | COP                             |                   | 2.95                     | 3.03                     | 3.08                     |
| Water regime 55°C                                | Bi-compressor heating power     | kW                | 8.40                     | 10.71                    | 12.44                    |
|  | Input power                     | kW                | 3.74                     | 4.63                     | 5.29                     |
|  | COP                             |                   | 2.25                     | 2.31                     | 2.35                     |
| Water regime 65°C                                | Bi-compressor heating power     | kW                | 8.33                     | 10.69                    | 12.01                    |
|  | Input power                     | kW                | 4.45                     | 5.30                     | 5.92                     |
|  | COP                             |                   | 1.87                     | 2.02                     | 2.03                     |
| <b>OUTDOOR AIR REGIME -15°C</b>                  |                                 |                   |                          |                          |                          |
| Water regime 35°C                                | Bi-compressor heating power     | kW                | 7.79                     | 10.24                    | 11.71                    |
|  | Input power                     | kW                | 2.78                     | 3.58                     | 4.04                     |
|  | COP                             |                   | 2.80                     | 2.86                     | 2.90                     |
| <b>OUTDOOR AIR REGIME -20°C</b>                  |                                 |                   |                          |                          |                          |
| Water regime 55°C                                | Bi-compressor heating power     | kW                | 7.87                     | 10.12                    | 11.06                    |
|  | Input power                     | kW                | 3.95                     | 4.73                     | 5.22                     |
|  | COP                             |                   | 1.99                     | 2.14                     | 2.12                     |
| <b>OTHERS FEATURES</b>                           |                                 |                   | <b>PAC HT SPLIT 12-6</b> | <b>PAC HT SPLIT 14-7</b> | <b>PAC HT SPLIT 18-9</b> |
| Nominal water flow                               | l/h                             | 1030              | 1370                     | 1580                     |                          |
| Available hydraulic pressure (HS)                | kPa                             | 55                | 48                       | 55                       |                          |
| Outdoor temperature operating limits             | °C                              |                   | -20                      |                          |                          |
| Water outlet temperatures (min./max.)            | °C                              |                   | +25/+65                  |                          |                          |
| <b>INDOOR UNIT</b>                               |                                 |                   |                          |                          |                          |
| Sound power level                                | dB(A)                           |                   | 41                       |                          |                          |
| Outdoor unit dimensions (WxHxD)                  | mm                              |                   | 1456.60 x 1308 x 516     |                          |                          |
| <b>OUTDOOR UNIT</b>                              |                                 |                   |                          |                          |                          |
| Gas refrigerant piping (0 to 25 meters)          | inches                          |                   | 5/8"                     |                          |                          |
| Liquid refrigerant piping (0 to 25 meters)       | inches                          |                   | 3/8"                     |                          |                          |
| Gas refrigerant piping (0 to 45 meters)          | inches                          |                   | 3/4"                     |                          |                          |
| Liquid refrigerant piping (0 to 45 meters)       | inches                          |                   | 1/2"                     |                          |                          |
| Sound power level                                | dB(A)                           |                   | 65                       |                          |                          |
| Indoor unit dimensions (WxHxD)                   | mm                              |                   | 400 x 720 x 260          |                          |                          |
| Refrigerant precharge                            | m                               |                   | until 20 m               |                          |                          |
| Max. length                                      | m                               |                   | 45                       |                          |                          |
| <b>REFRIGERANT CONNECTIONS - INDOOR UNIT</b>     |                                 |                   |                          |                          |                          |
| Gas  | inches                          |                   | 5/8"                     |                          |                          |
| Liquid   | inches                          |                   | 3/8"                     |                          |                          |
| <b>HYDRAULIC CONNECTIONS - INDOOR UNIT</b>       |                                 |                   |                          |                          |                          |
| Water inlet                                      | inches                          |                   | 1" female / Rotating nut |                          |                          |
| Water outlet                                     | inches                          |                   | 1" female / Rotating nut |                          |                          |

\*The Heat Pumps NF and Eurovent Certifications are based on these data.