PAC + / PAC + R

THE + PRODUCTS

- "Ready to use" monobloc, all parameters set at the
- Softstarter device for single-phase models.
- Phase controller for three-phase models.
- Low susceptibility to clogging with coaxial heat exchanger.
- Optimised accessibility to components eases installation and maintenance.
- Outdoor ambient temperature controled, to ensure comfort and optimum COP.

2 VERSIONS TO SUIT ALL YOUR NEEDS

This heat pump provides for heating needs only

- Designed to power heated flooring, radiators or water terminal units
- Reversible: Heater mode and cooling mode
- Built-in 6 kW electrical supply point
- Safety power-off switch
- Built-in 5 I expansion tank
- Supplied with room thermostat

STANDARD EQUIPMENT

- Scroll compressor
- Smooth hydrophilic fin heat exchanger
- Ventilators with protruding blades
- Heat exchange protection grille
- Coaxial heat exchanger
- Electric and control panel
- Phase controller for three-phase models • softstarter device on single-phase models
- Cycle inversion valve
- 3-speed water circulation pump
- Safety selector
- Automatic purging
- Safety valve
- Water filler valve
- High-/Low pressure pressostats

PAC + only:

- 5-litre expansion tank
- 6 kW electrical heater
- Room thermostat

PAC + R:

and to releave your boiler if necessary

• Operates at outside temperatures of up to -15°C.

• Compatible with heated flooring, radiators and water

Water leaving temperature up to 55°C

- Optional control management kit with programmable room thermostat

Low noise levels

terminal units.

This heat pump releaves your boiler

- Designed to fit with your existing heating installation,
- Heating mode only
- Optional hydraulic connection kit with 3-way valves



PAC + / PAC + R

			PAC + / PAC + R 08	PAC + / PAC + R 10	PAC + / PAC + R
Water system	at 30/35°C				
Heating	Capacity at outside temp. of 7°C	kW	8.1	11.2	14.1
	Power input	kW	2.3	3.1	3.9
	COP		3.53	3.6	3.63
	Capacity at outside temp. of 2°C*	kW	6.2	8.1	10.0
	Power input at outside temp. of 2°C	kW	2.3	3.0	3.6
	Capacity at outside temp of -7°C*	kW	5.1	7.2	8.7
	Power input at outside temp. of -7°C	kW	2.3	3.1	3.7
	Nominal water flow	m³/h	1.43	1.97	2.52
	Available hydraulic pressure (HS)	kPa	48	33	51
	Outdoor temperature operating limits see the technical sheet for detai-	°C		-15°C	
	Min./max. water leaving temperature led operational data	°C		25°C / 55°C	
Cooling	Capacity at air temp 35°C, water temp 18/23°C (PAC + only)	kW	7.2	8.9	9.8
	Power input	kW	2.5	3.7	4.5
	EER		2.84	2.42	2.21
	Outdoor temperature operating limits	°C		20°C / 45°C	
	Min./max. water leaving temperature	°C		7°C / 18°C	
Water system	at 40/45°C				
Heating	Capacity at outside temp. of 7°C	kW	7.7	10.7	13.6
	Power input	kW	2.8	3.8	4.6
	Heating capacity at outside temp. of -7°C*	kW	5.1	6.9	9.1
	Power input at outside temp. of -7°C	kW	2.8	3.7	4.5
	Nominal water flow	m3/h	1.36	1.90	2.43
	Available hydraulic pressure (HS)	kPa	50	38	55
	Outdoor temperature operating limits see the technical sheet for	°C		-15°C	
	Min./max. water leaving temperature detailed operational data	°C		25°C / 55°C	
Cooling	Capacity at air temp 35°C, water temp 7/12°C - PAC + only	kW	5.6	7.7	7.1
	Power input	kW	2.5	3.6	4.2
	Sound pressure level at 5m in open space**	dB(A)	39	39	39
	Sound power level**	dB(A)	64	64	64
	Compressor type			Scroll	
	Weight	kg	180	183	188
	Dimensions (WxDxH)	mm		1150x401x1309	
	Electrical heater capacity (PAC + only)	kW		6 (2+4)	
	Heat exchanger			Coaxial	
Pipe line	Water inlet	inches		1" female	
	Water outlet	inches		1" female	
	Expansion tank (PAC + only)	litres	5	5	5
ower supply	Power cable (PAC + /PAC + R)	mm²	3x10 / 3x2.5	3x16 / 3x4	3x16 / 3x6
1~230V	Main fuse (PAC + /PAC + R)	А	63 / 20	63 / 25	63 / 32
	Power cable (PAC + /PAC + R)	mm²	-	5x4 / 5x2.5	5x4 / 5x2.5
ower supply 3N~400V	Main fuse (PAC + /PAC + R)	А		25 / 16	32 / 16

** Sound level of units equipped with sound insulation on compressor (supplied as standard). Add 3 dB(A) is this insulation if removed.



Your official dealer

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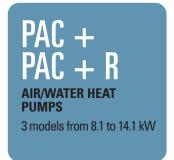
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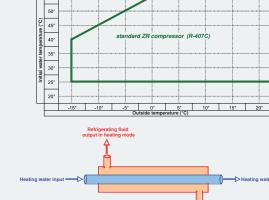




A TRUE HEAT PUMP OPTIMISED TO RECOVER HEAT FROM THE AIR



Exceptionally good COP and high water temperatures with the green refrigerent R-407C

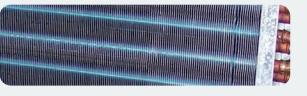




Low susceptibility to clogging and optimised performance with coaxial heat exchanger acting against the current in heating mode

A SMOOTH-FIN EVAPORATOR AT A RATE OF 1.8 mm TO EASE THE FLOW OF **CONDENSATION AND DEFROSTING WATER**





A large exchanging surface for maximum performance at low temperatures

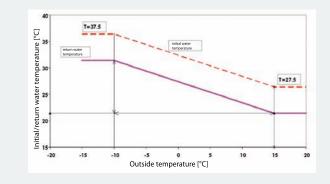
SIMPLE ELECTROMAGNETIC EQUIPMENT (NO ELECTRIC DIAGRAM) WITH GLOBALLY RECOGNISED CONTROLLER



The controller interface lets you view or modify the different parameters

COMPRESSOR USE UNDER OUTDOOR AMBIENT TEMPERATURE CONTROL

By using an outdoor ambient temperature controlled system, it ensures optimum use of the heat pump with an exceptionally high annual COP.



TECHNOLOGY EXPERIENCE FOR OVER 10 YEARS

• PAC + and PAC + R are a new generation of heat pumps based on technology which has been produced and tested for 10 years.

A HEAT PUMP PRODUCED ENTIRELY IN FRANCE



- French manufacturer AIRWELL has been producing heat pumps for 30 years
- Our PAC + / PAC + R heat pump range is designed and produced at our factory in Tillières sur Avre (80 km west) of Paris)

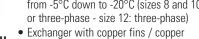


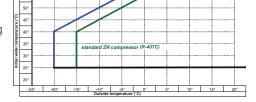


compressor ZH

OPTIONS

High performance compressor ZH*: Water leaving temperature at 55°C with outdoor temperature from -5°C down to -20°C (sizes 8 and 10: single





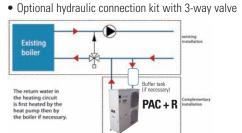
PAC + R OPTIONS

Regulation kit with programmable air thermostat



Programmable room thermostat





QUESTIONS AND ANSWERS

□ What happens in very low temperatures?
The heat pump preheats the return flow water and the additional heater (electrical on PAC +, the boiler on PAC + R) supplies all the heat necessary.

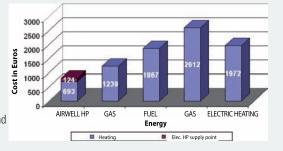
☐ Is it necessary to install a buffer tank?

Yes, if the installation is equipped with thermostatic valves. In this case, a 150-200 litre tank will avoid short-circuits.

☐ What savings can I expect to make?

For every 1 kWh of electricity consumed, Airwell heat pumps provides more than 3 kWh (yearly average) of heat, resulting in considerable energy savings.

Example: The PAC + 08 will cover practically all the requirements of a 130 m² detached house built in the 1980's, even if poorly insulated, and the electrical supply point will hardly be used.



* PAC + / PAC + R equipped with the ZH compressor are not NF HP certified, but are eligible to a tax credit.