PAC BT SPLIT
LOW TEMPERATURE HEAT PUMP

Airwell
Just feel well

A++

MADE IN EUROPE

PRODUCTS

- Flexy match : One outdoor unit for indoor units with or without DHW.
- High efficiency : ηs 132 %.
- High modulation DC Inverter : optimization at partial load.
- Modular system : Boiler connection kit (optional) and complementary DHW tank.

FEATURES

DC INVERTER
R410A FLUID
HEATING MODE OPERATIONAL DOWN TO -20°C OUTDOORS
FLOOR HEATING
LOW-TEMPERATURE RADIATOR
BOILER REPLACEMENT
BOILER BACK-UP
ULTRA QUIET
DOMESTIC HOT WATER
ENR

PAC BT SPLIT
with DHW tank included

PAC BT SPLIT
without DHW tank

PAC BT SPLIT
ODU 4-8 kW

PAC BT SPLIT
ODU 10-16 kW

- → Ideal solution for underfloor heating/cooling, low temperature radiators or fan coil.
- → Confort all year around : one system for cooling and heating.
- → Solar ready : recovery of free energy from the sun via a solar heat exchanger.
- → Control touch screen on the indoor unit: choice of mode (heating, cooling and hot water), weekly programming and holidays, installer mode (visualization of the probes, fault codes).
- → 280L Integrated Hot Water Storage Tank: solution compact (depending on model).
- → Hydraulic circuit included : easy installation and multi-zone management.

SELECT YOUR SYSTEM

	Outdoor unit	Indoor unit without DHW	Indoor unit with DHW
PAC BT 4kW	**7HP061025**	**7HP010007**	**7HP010005**
PAC BT 6kW	**7HP061026**		
PAC BT 8kW	**7HP061027**		
PAC BT 10kW	**7HP061028**	**7HP010008**	**7HP010006**
PAC BT 12kW three phases	**7HP061029**		
PAC BT 12kW single phase	**7HP061030**		
PAC BT 14kW three phases	**7HP061031**		
PAC BT 14kW single phase	**7HP061032**		
PAC BT 16kW three phases	**7HP061033**		
PAC BT 16kW single phase	**7HP061034**		

PAC BT SPLIT
LOW TEMPERATURE HEAT PUMP

PAC BT SPLIT TECHNICAL DATA

			PAC-BT-UE-4KW-H11	PAC-BT-UE-6KW-H11	PAC-BT-UE-8KW-H11	PAC-BT-UE-10KW-H11	PAC-BT-UE-12KW-H13	PAC-BT-UE-12KW-H11	PAC-BT-UE-14KW-H13	PAC-BT-UE-14KW-H11	PAC-BT-UE-16KW-H13	PAC-BT-UE-16KW-H11
Part number			7HP061025	7HP061026	7HP061027	7HP061028	7HP061029	7HP061030	7HP061031	7HP061032	7HP061033	7HP061034
Phases			Single phase	Single phase	Single phase	Single phase	Three phases	Single phase	Three phases	Single phase	Three phases	Single phase
HEATING												
Air 7°C Water 35°C [1]	Heatoutput	kW	4.23	6.33	8.09	9.69	12.16		14.16		15.77	
	Total power draw	kW	0.81	1.31	1.77	2.11	2.54		2.91		3.28	
	COP		5.21	4.83	4.57	4.59	4.79		4.87		4.81	
	Waterflowrate	l/s	0.20	0.30	0.39	0.47	0.56		0.66		0.74	
	Nominal available pressure	kPa	50.0	50.0	47.0	42.0	54.0		49.0		42.0	
	Maximum available pressure	kPa	71.0	63.0	55.0	80.0	78.0		70.0		54.0	
Air -7°C Water 35°C [2]	Heat output	kW	4.78	5.68	6.09	7.69	9.76		11.32		12.06	
	Total power draw	kW	1.56	1.95	2.18	2.80	3.32		3.90		4.14	
	COP		3.06	2.91	2.79	2.75	2.94		2.90		2.91	
	Water flow rate	l/s	0.23	0.27	0.29	0.38	0.45		0.53		0.56	
	Maximum available pressure	kPa	71.0	63.0	55.0	80.0	78.0		70.0		54.0	
Air 7°C Water 45°C [3]	Heat output	kW	4.06	6.00	7.29	9.77	12.22		14.64		16.44	
	Total power draw	kW	1.10	1.65	2.15	2.70	3.35		3.86		4.42	
	COP	-	3.69	3.64	3.39	3.62	3.65		3.79		3.72	
	Water flow rate	l/s	0.19	0.29	0.35	0.48	0.57		0.69		0.77	
	Maximum available pressure	kPa	72.0	65.0	53.0	84.0	82.0		73.0		62.0	
COOLING												
Air 35°C Water 18°C [4]	Cooling capacity	kW	4.47	6.19	8.01	10.16	11.39		14.34		15.40	
	Total power draw	kW	0.80	1.29	1.81	2.03	2.59		3.10		3.56	
	EER		5.58	4.80	4.43	5.00	4.40		4.63		4.33	
	Waterflowrate	l/s	0.21	0.30	0.38	0.49	0.54		0.69		0.74	
	Nominal available pressure		50.0	50.0	48.0	59.0	56.0		47.0		43.0	
	Maximum available pressure	kPa	71.0	63.0	55.0	80.0	78.0		70.0		54.0	
Air 35°C Water 7°C [5]	Cooling capacity	kW	4.34	6.24	7.57	9.52	11.34		14.15		15.53	
	Total power draw	kW	1.27	2.05	2.73	3.20	4.25		5.14		5.71	
	EER		3.42	3.05	2.77	2.97	2.67		2.75		2.72	
	Water flow rate	l/s	0.21	0.30	0.36	0.45	0.54		0.68		0.74	
	Nominal available pressure	kPa	50.0	50.0	48.0	60.0	56.0		48.0		45.0	
	Maximum available pressure	kPa	71.0	63.0	55.0	80.0	78.0		70.0		54.0	
ERP												
Clima average high temperature heat pumps [6]	Nominal power	kW	4	6	7	10	12		14		15	
	Energy class - PAC only		A++	A++	A++	A++	A++		A++		A++	
	ηs - PAC only	%	130	127	127	128	129		131		132	
	Energy class - System		A++	A++	A++	A++	A++		A++		A++	
	ηs - System	%	135	132	132	133	134		136		138	
	Energy class - DHW	XL	A	A	A	A	A		A		A	
Clima average low temperature heat pumps [7]	Nominal power	kW	4	6	7	10	12		14		15	
	Energy class - PAC only		A++	A+++	A++	A++	A+++		A++		A++	
	ηs - PAC only	%	174	175	171	174	176		166		164	
	Energy class - System		A+++	A+++	A+++	A+++	A+++		A+++		A+++	
	ηs - System	%	179	180	176	179	181		171		169	
CHARACTERISTICS												
Minimum system water content [8]		l	15	22	28	35	42		50		55	
Minimum admitted water flow rate		l/s	0.17	0.17	0.17	0.25	0.25		0.25		0.25	
Maximum admitted water flow rate		l/s	0.90	0.90	0.90	1.10	1.30		1.50		1.70	
PIPE LINE												
A - Refrigerant pipe min/max equivalent length		m	2 -20	2 -20	2 -30	2 – 50	2 – 50		2 – 50		2 – 50	
B - Height difference due to the presence of the siphon		m	6	6	6	6	6		6		6	
C - Maximum refrigerant pipe height difference with outdoors unit higher/lower than indoors unit		m	15/20	15/20	15/20	25/30	25/30		25/30		25/30	
Gas pipe diameter		inches	5/8”	5/8”	5/8”	5/8”	5/8”		5/8”		5/8”	
Fluid line diameter		inches	3/8”	3/8”	3/8”	3/8”	3/8”		3/8”		3/8”	
REFRIGERANT												
R410A - Standard charge for connections up to 5 m		kg	2.5	2.5	2.8	3.9	4.2	3.9	4.2	3.9	4.2	3.9
Additional charge per metre		g/m	54	54	54	54	54	54	54	54	54	54

1. Service side water inlet/outlet temperature 30/35 °C, source side air 7°C (R.H. = 85% heat output, total power draw and COP data pursuant to EN 14511:2013.
2. Service side water inlet/outlet temperature 30/35 °C, source side air -7°C heat output, total power draw and COP data pursuant to EN 14511:2013.
3. Service side water inlet/outlet temperature 40/45 °C, source side air 7°C (R.H. = 85% heat output, total power draw and COP data pursuant to EN 14511:2013.
4. Service side water inlet/outlet temperature 18/23 °C, source side air 35°C heat output, total power draw and COP data pursuant to EN 14511:2013.
5. Service side water inlet/outlet temperature 7/12 °C, source side air 35°C heat output, total power draw and COP data pursuant to EN 14511:2013.
6. The product is conforming with the European ErP Directives, which includes Commission Delegated Regulation (EU) N. 811/2013 and Commission Delegated Regulation N. 813/2013, Clima Average, High Temperature 47/55°C.
7. The product is conforming with the European ErP Directives, which includes Commission Delegated Regulation (EU) N. 811/2013 and Commission Delegated Regulation N. 813/2013, Clima Average, Low Temperature 30/35°C.
8. The minimum system water charge is the water contained in the system and in the unit when the zone with the smaller water content is demanding service.

Outdoor units		PAC-BT-UE-4KW-H11	PAC-BT-UE-6KW-H11	PAC-BT-UE-8KW-H11	PAC-BT-UE-10KW-H11	PAC-BT-UE-12KW-H13	PAC-BT-UE-12KW-H11	PAC-BT-UE-14KW-H13	PAC-BT-UE-14KW-H11	PAC-BT-UE-16KW-H13	PAC-BT-UE-16KW-H11
Part number		7HP061025	7HP061026	7HP061027	7HP061028	7HP061029	7HP061030	7HP061031	7HP061032	7HP061033	7HP061034
CHARACTERISTICS											
Compressor		Rotary	Rotary	Rotary	Rotary	Rotary		Rotary		Rotary	
Refrigerant		R-410a	R-410a	R-410a	R-410a	R-410a		R-410a		R-410a	
Refrigerant charge	kg	2.5	2.5	2.8	3.9	3.9		3.9		3.9	
GWP	Eq TCO_2	2088	2088	2088	2088	2088		2088		2088	
Type of fan		1	1	1	2	2		2		2	
Standard air flow rate	m^3/h	3180	3180	5120	6500	6500		6500		6500	
Sound pressure at 1 metre	dB(A)	46	48	50	52	54		55		55	
Sound power	dB(A)	60	62	65	67	69		70		70	
Power supply	V/Ph/Hz	230/1/50	230/1/50	230/1/50	230/1/50	400/3/50	230/1/50	400/3/50	230/1/50	400/3/50	230/1/50
Current draw under maximum conditions	A	12.10	12.40	22.00	30.00	7.0	33.00	8.9	34.00	9.4	35.00
DIMENSIONS											
Dimensions (WxHxD)	mm	960x860x380	960x860x380	1075x965x395	900x1327x400	900x1327x400		900x1327x400		900x1327x400	
Weight during operation	kg	60	60	76	109	109		109		109	

Indoor units		PAC-BTE-UI-4-8KW-H11		PAC-BTE-UI-10-16KW-H11		PAC-BT-UI-4-8KW-H11	PAC-BT-UI-10-16KW-H11
Range		Indoor unit with DHW included				Indoor unit without DHW	
Part number		7HP010005		7HP010006		7HP010007	7HP010008
DHW							
Volume of DHW tank	l	280		280		-	-
DIMENSIONS							
Dimensions (WxHxD)	mm	600x2040x800		600x2040x800		462x700x316	462x700x316
Weight during operation	kg	450		470		48	50
MODE CHARACTERISTICS		**Cooling**	**Heating**	**Cooling**	**Heating**		
Power supply		230/1/50		230/1/50		230/1/50	230/1/50
Maximum inrush current of unit	A	9.60	9.6	10.1	10.7	9.30	9.80

MAIN OPTIONS AND ACCESSORIES

Photo / Part number	Accessory	Compatibility	Function
ELECTRICAL ACCESSORY			
 7ACFH0825	**Electrical complement kit 2/4/6 kW mono PAC BT**	All models	Allows to ensure additional heating via electrical resistance.
HYDRAULIC ACCESSORY			
 7ACEL1757	**Boiler backup kit PACBT**	Only for PAC BT with DHW	Allows to connect a boiler (fuel, gas, wood…).
7ACFH0826	**Kit bi-zone 1 temperature PAC BT**	Only for PAC BT with DHW	Allows to manage two different zones with the same temperature.
7ACFH0827	**Kit bi-zone 2 temperature PAC BT**	Only for PAC BT with DHW	Allows to manage two different zones with two temperatures.
7ACFH0823	**Kit bi-zone 1 temperature PAC BT**	Only for PAC BT without DHW (only for sizes 4-6-8 kW - 7HP010007)	Allows to manage two different zones with the same temperature.
7ACFH0824	**Kit bi-zone 2 temperatures PAC BT**	Only for PAC BT without DHW (only for sizes 4-6-8 kW - 7HP010008)	Allows to manage two different zones with two temperatures.
7ACEL1750	**Solar connection option for DHW tank** ❗	Only for PAC BT with DHW	Solar connection kit allowing the connection with solar thermal panels.
7ACFH0831	**8 litres expansion vessel kit** ❗	Only for PAC BT with DHW	Safety element for compensating variations of water volume.
COMPLEMENTARY OPTION			
 7ACEL1749	**Auxiliary tank tank DHW 280L PAC BT**	Only for PAC BT with DHW	Allows to increase the tank capacity of DHW.
7ACFH0830	**Auxiliary condensate collection tray**	For outdoor units all sizes	Complementary condensate tray, to increase the maximum condensate recovery volume.
 7ACEL1732	**RCW15 Thermostat PAC BT**	All models	Temperature and humidity thermostat / Remote keyboard / weekly timer.
7ACEL1733	**Power supply for RCW15**	All models. Mandatory with RCW15	Power supply kit for RCW15.
7ACFH0832	**300L DHW tank with coil for solar applications**	Only for PAC BT without DHW (sizes 4-6-8 kW).	DHW tank with coil for solar applications (300L)
7ACFH0833	**500L DHW tank with coil for solar applications**	Only for PAC BT without DHW (all sizes)	DHW tank with coil for solar applications (500L)
7ACFH0834	**300 litres DHW tank**	Only for PAC BT without DHW (sizes 4-6-8 kW).	Standard DHW tank (300L)
7ACFH0835	**500 litres DHW tank**	Only for PAC BT without DHW (all sizes)	Standard DHW tank (500L)

❗ Mandatory accessory.

3, AVENUE DU CENTRE - LES QUADRANTS - BAT. A - 78280 GUYANCOURT, FRANCE
TEL: +33 (0)1 76 21 82 00 - FAX: +33 (0)1 76 21 82 01 - www.airwell-res.com

Airwell
AIR CONDITIONING & HEATING