

PAC BT

LOW TEMPERATURE HEAT PUMP

Airwell
Just feel well



COP up to 4.85

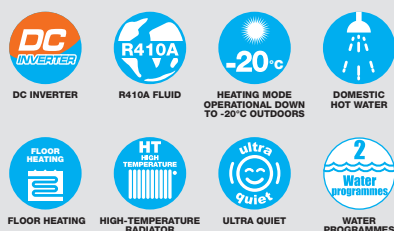
EER up to 4.55



+ PRODUCTS

- Cooling and heating mode.
- Monobloc system.
- Available in 3PH (sizes 14 to 16).
- High flexibility due to DC Inverter compressor.

FEATURES



PAC BT 5-7 kW



PAC BT 9-10-12-14-16 kW

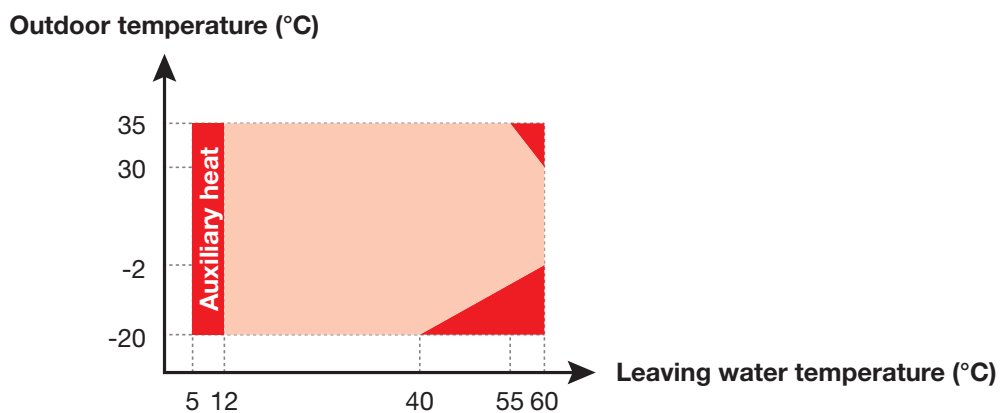
- Digital display on indoor unit: mode selection (heating, cooling and Domestic Hot Water), weekly timer and holidays, diagnosis aid (display parameters, troubleshooting).
- Provides optimal comfort all year long: Only one system for heating and cooling.
- Ideal solution for radiant panel in heating and cooling mode, low temperature heater, or fan-coil units.
- “Plug & Play” solution to replace old monobloc heat pumps.
- 4.58 to 16.30 kW in heating mode / 4.55 to 15.1 kW in cooling mode over 6 models
- Operating in heating mode up to -20°C outdoor temperature (water outlet temperature up to 60°C).
- Operating in cooling mode up to 46°C.
- Compact solution: small footprint
- Safety features included (safety valve, expansion tank).
- High performances: COP up to 4.85 and EER up to 4.55.
- Energy efficiency coefficient up to 178,3% (η_s).
- Auxiliary heat resistance included (depends on model - not included on sizes 5, 7 and 9).

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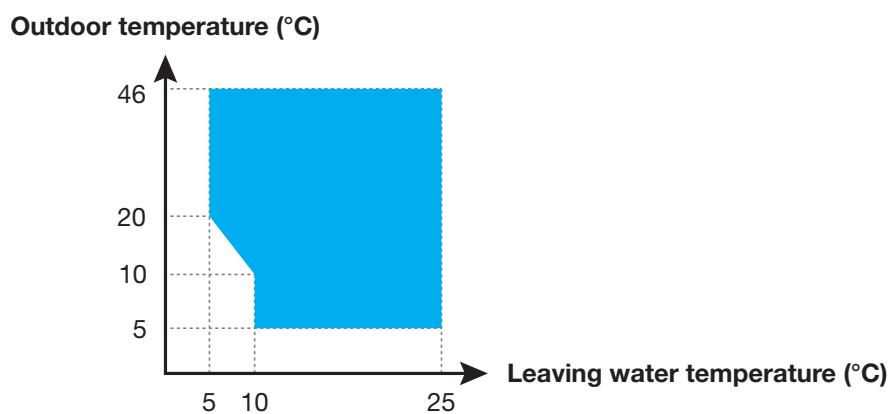
OPERATING LIMITS: User function via remote control

HEATING*

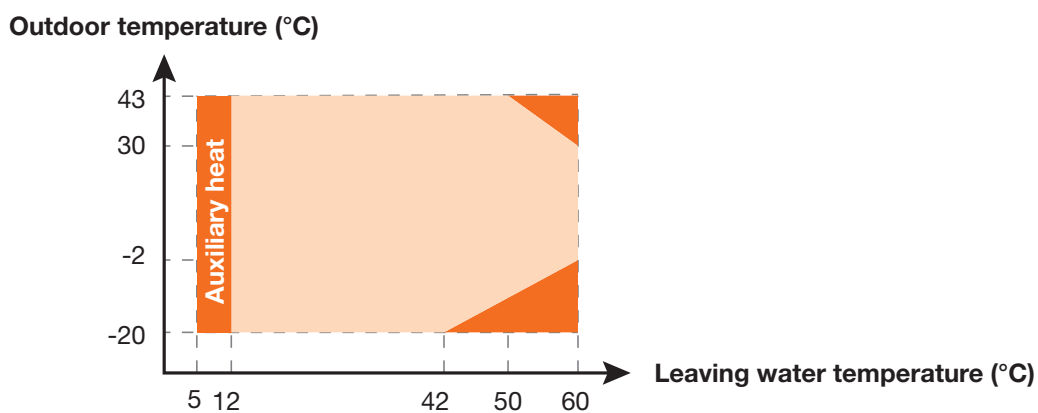


* Shaded areas indicate no heat pump operation (backup electric heater or auxiliary heat source only).

COOLING



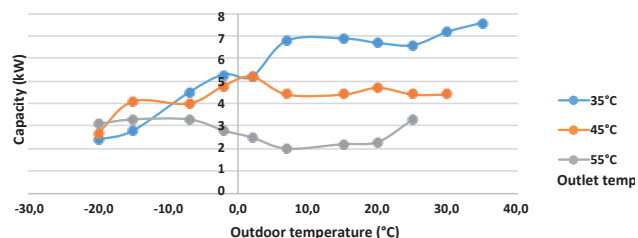
DOMESTIC HOT WATER*



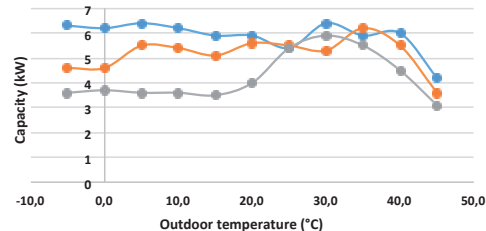
* Shaded areas indicate no heat pump operation (backup electric heater or auxiliary heat source only).

PAC BT 5 KW PERFORMANCES

HEATING

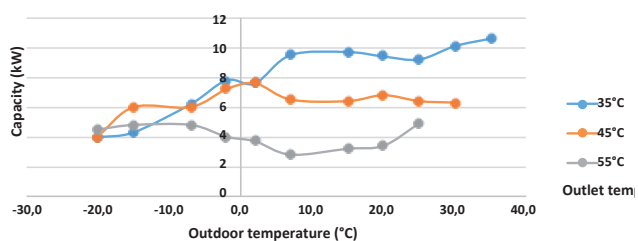


COOLING

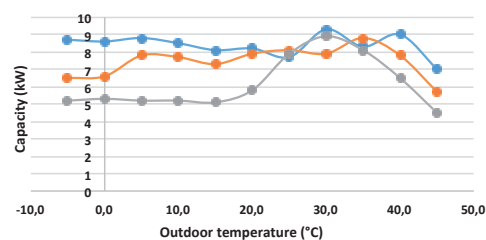


PAC BT 5 KW PERFORMANCES

HEATING

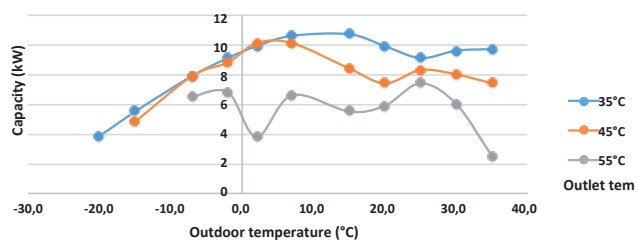


COOLING

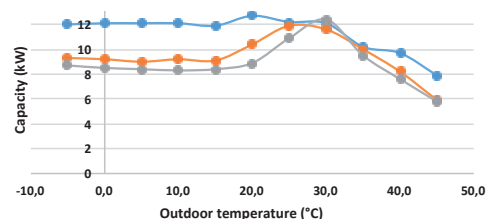


PAC BT 10 KW PERFORMANCES

HEATING



COOLING

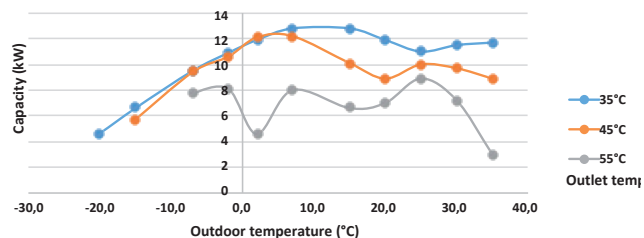


PAC BT

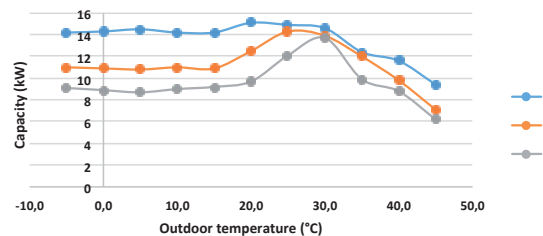
LOW TEMPERATURE HEAT PUMP

PAC BT 12 KW PERFORMANCES

HEATING

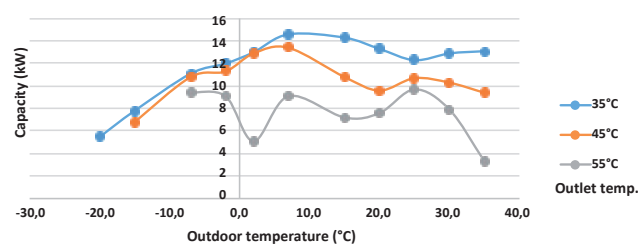


COOLING

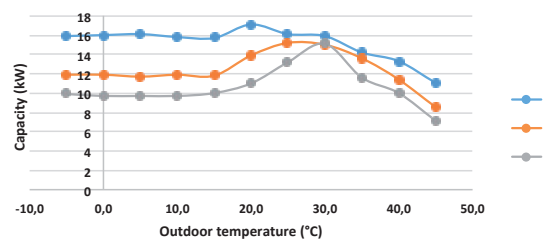


PAC BT 14 KW PERFORMANCES

HEATING

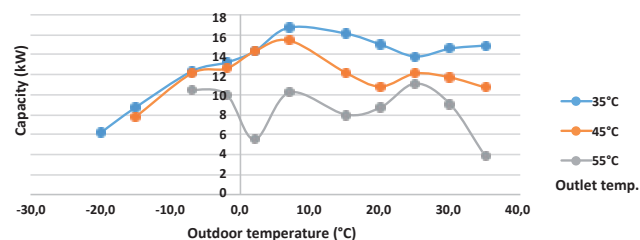


COOLING

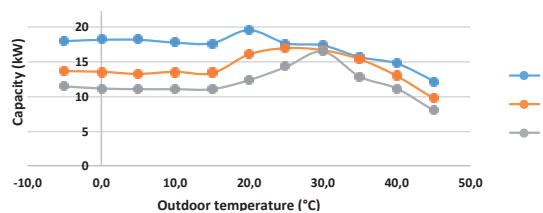


PAC BT 16 KW PERFORMANCES

HEATING



COOLING



PRINCIPALES OPTIONS ET ACCESSOIRES

Photo / Part number	Accessory	Function
ACCESSOIRES FOURNIS		
(included)	Y-shape filter ⓘ	Protect the heat pump from sludging and preserve optimum thermal exchange.
 (included)	User interface kit (digital remote controller)	ON/OFF unit, outside heat source. Operation Mode setting: cooling/heating/AUTO DHW setting: Fast DHW / holiday/disinfect/ DHW pump setting Temp. setting: water outlet temp, room temp. Time setting: 12H/24H Timer ON/OFF setting, Day/Weekly Display space heating/cooling set temp., water tank temp. Display components status Query, malfunction Code, Parameter, Test mode setting
(included)	T5: Thermistor for domestic hot water tank	DHW temperature control.
ACCESSOIRES OPTIONNELS		
 7ACFH0662	300 L domestic hot water tank kit	Optimised with the operation of the PAC - Programmable anti-legionellosis function - Management of the three-way valve / circulator pump couple - 3.1 m² exchange surface
 7ACFH0822	On-line electric heater - 3 kW	It provides extra heating when the heating demand is greater than the capacity of the heat pump. It is matching only with sizes 5, 7 and 9.
 7ACFH0666	Settling filter (pot) ⓘ	Protect the heat pump from sludging and preserve optimum thermal exchange.
 7ACTL0510	Floor support rubber recycled (pair) ⓘ Long: 1 000 mm	Necessary for a professional installation.

ⓘ Mandatory accessory.

PAC BT

LOW TEMPERATURE HEAT PUMP

PAC BT MONOBLOC TECHNICAL DATA - SINGLE PHASE

Models			AWHM-PAC-BT-MB-5KW-H11	AWHM-PAC-BT-MB-7KW-H11	AWHM-PAC-BT-MB-9KW-H11	AWHM-PAC-BT-MB-10KW-H11	AWHM-PAC-BT-MB-12KW-H11	AWHM-PAC-BT-MB-14KW-H11	AWHM-PAC-BT-MB-16KW-H11
Code 1~230V-50Hz			7HP061015	7HP061016	7HP061017	7HP061018	7HP061019	7HP061020	7HP061021
HEATING MODE - OUTDOOR AIR REGIME +7°C / 85% HUMID BULB									
Water regime 30/35°C*	Heating capacity	kW	4.58	6.55	8.64	10.43	12.17	14.76	16.33
	Power input	kW	0.97	1.45	2.01	2.28	2.73	3.40	3.90
	COP		4.72	4.52	4.30	4.57	4.46	4.34	4.19
Water regime 40/45°C	Heating capacity	kW	4.67	6.69	9.19	10.17	12.58	14.08	16.12
	Power input	kW	1.43	2.05	2.63	3.08	3.86	4.47	5.22
	COP		3.27	3.26	3.49	3.30	3.26	3.15	3.09
Water regime 47/55°C	Heating capacity	kW	4.76	6.24	9.35	8.89	10.55	11.64	13.43
	Power input	kW	1.88	2.39	3.28	3.38	3.84	4.38	5.22
	COP		2.53	2.61	2.85	2.63	2.75	2.66	2.57
COOLING MODE - OUTDOOR AIR REGIME 35°C									
Water regime indoor 23°C outdoor 18°C	Heating capacity	kW	4.55	6.45	8.35	10.25	12.19	14.61	14.82
	Power input	kW	1.00	1.47	2.10	2.06	2.65	3.32	3.66
	EER		4.55	4.40	3.97	4.98	4.60	4.40	4.05
Water regime indoor 12°C outdoor 7°C	Heating capacity	kW	4.55	6.71	8.06	10.44	12.21	12.95	13.72
	Power input	kW	1.55	2.57	3.51	3.28	4.17	4.53	5.16
	EER		2.94	2.61	2.30	3.18	2.93	2.86	2.66
OTHERS FEATURES									
Energy label	Water outlet à 35°C	ηs	175.9%	178.3%	163.3%	161.7%	165.6%	172.7%	167.5%
		class	A++	A++	A++	A++	A++	A++	A++
	Water outlet à 55°C	ηs	125.7%	125.7%	127.1%	129.3%	129.3%	128.5%	125.1%
		class	A++	A++	A++	A++	A++	A++	A++
SCOP	Water outlet à 35°C		4.47	4.53	4.16	4.12	4.21	4.39	4.26
	Water outlet à 55°C		3.22	3.22	3.25	3.31	3.31	3.29	3.20
SEER	Water outlet à 7°C		4.61	4.75	4.52	5.24	5.34	4.86	4.34
	Water outlet à 18°C		5.90	5.74	5.69	6.22	6.64	6.18	5.88
Operating range	Cooling	°C	-5/46						
	Heating	°C	-20/35						
	ECS	°C	-20/43						
Water outlet temperatures	Cooling	°C	5/25						
	Heating	°C	25/60						
	ECS	°C	40/60						
Fuse rating	A		25	25	25	40	40	40	40
Compressor type			Twin rotary DC inverter						
Outdoor fan	Number		1	1	1	2	2	2	2
	Air flow	m³/h	3050	3050	3050	6150	6150	6150	6150
Circulator	Head	m	6	6	6	7.5	7.5	7.5	7.5
Refrigerant	Type		R410A						
	Precharge	kg	2.4	2.4	2.4	3.6	3.6	3.6	3.6
Auxiliary heat resistance	Build in standard	kW	-	-	-	3	3	3	3
	Optional	kW	3	3	3	4.5	4.5	4.5	4.5
	Power stage number		1	1	1	2	2	2	2
	Power supply	V/Ph/Hz	220-240/1/50						
Sound level	Heating	dB(A)	61	65	68	66	67	71	71
	Cooling	dB(A)	64	66	67	64	67	70	70
Outline dimensions (WxHxD)	mm		1210×945×402			1404×1414×405			
Package dimensions (WxHxD)	mm		1500×1140×450			1475×1580×440			
Net weight/Gross weight	kg		99/117			162/183			
Liquid pipe diameter	inches		1" Female BSP			1-1/4" Female BSP			
Total water volume	liters		2	2	2	5.5	5.5	5.5	5.5

PAC BT MONOBLOC TECHNICAL DATA - THREE PHASES

Models			AWHM-PAC-BT-MB-12KW-H13	AWHM-PAC-BT-MB-14KW-H13	AWHM-PAC-BT-MB-16KW-H13
Code 3~400V-50Hz			7HP061022	7HP061023	7HP061024
HEATING MODE - OUTDOOR AIR REGIME +7°C / 85% HUMID BULB					
Water regime 30/35°C*	Heating capacity	kW	12.37	14.10	16.30
	Power input	kW	2.76	3.26	3.88
	COP		4.48	4.33	4.20
Water regime 40/45°C	Heating capacity	kW	12.02	14.11	16.06
	Power input	kW	3.72	4.46	5.23
	COP		3.23	3.16	3.07
Water regime 47/55°C	Heating capacity	kW	12.51	14.41	16.15
	Power input	kW	4.43	5.16	5.86
	COP		2.82	2.79	2.76
COOLING MODE - OUTDOOR AIR REGIME 35°C					
Water regime indoor 23°C outdoor 18°C	Heating capacity	kW	12.64	14.03	15.10
	Power input	kW	2.75	3.26	3.78
	EER		4.60	4.30	4.00
Water regime indoor 12°C outdoor 7°C	Heating capacity	kW	12.58	13.80	15.26
	Power input	kW	4.32	5.14	6.41
	EER		2.91	2.68	2.38
OTHERS FEATURES					
Energy label	Water outlet à 35°C	ηs	174.9%	167.9%	163.6%
		class	A++	A++	A++
	Water outlet à 55°C	ηs	130.9%	127.9%	125.6%
		class	A++	A++	A++
SCOP	Water outlet à 35°C		4.45	4.27	4.17
	Water outlet à 55°C		3.35	3.27	3.22
SEER	Water outlet à 7°C		5.02	4.88	4.92
	Water outlet à 18°C		5.78	5.72	5.87
Operating range	Cooling	°C	-5/46		
	Heating	°C	-20/35		
	ECS	°C	-20/35		
Water outlet temperatures	Cooling	°C	5/25		
	Heating	°C	25/60		
	ECS	°C	40/60		
Fuse rating		A	20	20	20
Compressor type			Twin rotary DC inverter		
Outdoor fan	Number		2	2	2
	Air flow	m³/h	6150	6150	6150
Circulator	Head	m	7.5	7.5	7.5
Refrigerant	Type		R410A		
	Precharge	kg	3.6	3.6	3.6
Auxiliary heat resistance	Build in standard	kW	4.5	4.5	4.5
	Optional	kW	-	-	-
	Power stage number		1	1	1
	Power supply	V/Ph/Hz	380-415/3/50		
Sound level	Heating	dB(A)	68	71	71
	Cooling	dB(A)	69	70	71
Outline dimensions (WxHxD)		mm	1404x1414x405		
Package dimensions (WxHxD)		mm	1475x1580x440		
Net weight/Gross weight		kg	177/198		
Liquid pipe diameter		inches	1-1/4" Female BSP		
Total water volume		liters	5.5	5.5	5.5

