

Summary of	PAC BT MB 10/12/14/16 kW 1ph	Reg. No.	ICIM-PDC-000009	
Certificate Holder				
Name	Airwell Residential			
Address	10, rue du Fort de Saint Cyr	Zip	78180	
City	Montigny le Bretonneux	Country	France	
Certification Body	ICIM S.p.A.			
Name of testing laboratory	ReLab			
Subtype title	PAC BT MB 10/12/14/16 kW 1ph			
Heat Pump Type	Outdoor Air/Water			
Refrigerant	R410a			
Mass Of Refrigerant	3.6 kg			
Certification Date	30.07.2018			



Model: PAC BT MB 10KW H11

General Data	
Power supply 1x230V 50Hz	

Heating

EN 14511-2			
	Low temperature	Medium temperature	
Heat output	10.40 kW	8.90 kW	
El input	2.23 kW	3.38 kW	
СОР	4.66	2.63	
Indoor water flow rate	1.76 m³/h	0.94 m³/h	

EN 14511-4		
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed	
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed	
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	
Defrost test	passed	

Average Climate



EN 12102-1		
	Low temperature	Medium temperature
Sound power level outdoor	67 dB(A)	67 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_{s}	165 %	127 %
Prated	10.00 kW	11.00 kW
SCOP	4.20	3.25
Tbiv	-10 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	9.10 kW	9.70 kW
COP Tj = -7°C	2.74	1.93
Pdh Tj = +2°C	5.30 kW	6.20 kW
COP Tj = +2°C	4.10	3.12
Pdh Tj = +7°C	3.50 kW	4.20 kW
COP Tj = +7°C	5.90	4.63
Pdh Tj = 12°C	1.40 kW	2.70 kW
COP Tj = 12°C	4.40	5.26
Pdh Tj = Tbiv	9.80 kW	9.70 kW
COP Tj = Tbiv	2.48	1.93



Pdh Tj = TOL	9.80 kW	11.00 kW
COP Tj = TOL	2.48	1.81
Cdh	0.90	0.90
WTOL	49 °C	49 °C
Poff	17 W	17 W
РТО	6 W	6 W
PSB	17 W	17 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	electric	electric
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	4825 kWh	6960 kWh



Model: PAC BT MB 12KW H11

General Data		
Power supply 1x230V 50Hz		

Average Climate

EN 14825		
	Low temperature	Medium temperature
η_{s}	177 %	127 %
Prated	13.00 kW	11.00 kW
SCOP	4.51	3.25
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	11.40 kW	9.70 kW
COP Tj = -7°C	2.92	1.93
Pdh Tj = $+2$ °C	6.70 kW	6.20 kW
COP Tj = +2°C	4.25	3.12
Pdh Tj = $+7^{\circ}$ C	4.40 kW	4.20 kW
COP Tj = +7°C	6.42	4.63
Pdh Tj = 12°C	2.00 kW	2.70 kW
COP Tj = 12°C	6.48	5.26
Pdh Tj = Tbiv	11.40 kW	9.70 kW
COP Tj = Tbiv	2.92	1.93





Pdh Tj = TOL	10.70 kW	11.00 kW
COP Tj = TOL	2.60	1.81
Cdh	0.90	0.90
WTOL	49 °C	49 °C
Poff	17 W	17 W
РТО	6 W	6 W
PSB	17 W	17 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	electric	electric
Supplementary Heater: PSUP	2.20 kW	0.00 kW
Annual energy consumption Qhe	5908 kWh	6960 kWh

EN 12102-1		
	Low temperature	Medium temperature
Sound power level outdoor	69 dB(A)	69 dB(A)

Heating



EN 14511-2		
	Low temperature	Medium temperature
Heat output	12.10 kW	10.60 kW
El input	2.62 kW	3.85 kW
СОР	4.61	2.75
Indoor water flow rate	2.12 m³/h	1.12 m³/h

EN 14511-4	
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed



Model: PAC BT MB 14KW H11

General Data	
Power supply 1x230V 50Hz	

Average Climate

EN 14825		
	Low temperature	Medium temperature
η_{s}	174 %	127 %
Prated	14.00 kW	13.00 kW
SCOP	4.43	3.26
Tbiv	-8 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	12.80 kW	11.70 kW
COP Tj = -7°C	2.78	2.05
Pdh Tj = +2°C	7.80 kW	7.30 kW
COP Tj = +2°C	4.09	3.09
Pdh Tj = $+7^{\circ}$ C	4.80 kW	4.60 kW
COP Tj = +7°C	6.12	4.53
Pdh Tj = 12°C	3.10 kW	2.30 kW
COP Tj = 12°C	8.83	5.28
Pdh Tj = Tbiv	13.00 kW	11.70 kW
COP Tj = Tbiv	2.84	2.05





Pdh Tj = TOL	11.80 kW	10.80 kW
COP Tj = TOL	2.59	1.74
Cdh	0.90	0.90
WTOL	49 °C	49 °C
Poff	17 W	17 W
РТО	6 W	6 W
PSB	17 W	17 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	electric	electric
Supplementary Heater: PSUP	2.30 kW	2.20 kW
Annual energy consumption Qhe	6572 kWh	8420 kWh

EN 12102-1		
	Low temperature	Medium temperature
Sound power level outdoor	73 dB(A)	73 dB(A)

Heating



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EN 14511-2		
	Low temperature	Medium temperature
Heat output	14.80 kW	11.60 kW
El input	3.43 kW	4.36 kW
СОР	4.31	2.66
Indoor water flow rate	2.38 m³/h	1.26 m³/h

EN 14511-4	
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed

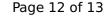


Model: PAC BT MB 16KW H11

General Data	
Power supply 1x230V 50Hz	

Average Climate

EN 14825		
	Low temperature	Medium temperature
η_{s}	168 %	125 %
Prated	16.00 kW	14.00 kW
SCOP	4.28	3.21
Tbiv	-6 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	13.50 kW	12.30 kW
COP Tj = -7°C	2.78	2.02
Pdh Tj = +2°C	9.00 kW	7.90 kW
COP Tj = +2°C	3.99	3.05
Pdh Tj = +7°C	6.10 kW	5.10 kW
COP Tj = +7°C	6.12	4.57
Pdh Tj = 12°C	3.10 kW	2.10 kW
COP Tj = 12°C	7.84	4.77
Pdh Tj = Tbiv	13.90 kW	12.30 kW
COP Tj = Tbiv	2.80	2.02





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Pdh Tj = TOL	11.60 kW	10.20 kW
1 411 1) = 102	11.00 KW	10.20 KW
COP Tj = TOL	2.38	1.68
Cdh	0.90	0.90
WTOL	49 °C	49 °C
Poff	17 W	17 W
Poli	17 VV	1 / VV
PTO	6 W	6 W
PSB	17 W	17 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	electric	electric
Supplementary Heater: PSUP	4.80 kW	3.70 kW
Annual energy consumption Qhe	7934 kWh	8973 kWh
Annual energy consumption one	7934 KVVII	OS/3 KVVII

EN 12102-1		
	Low temperature	Medium temperature
Sound power level outdoor	73 dB(A)	73 dB(A)

Heating



 $$\operatorname{\textit{Page}}\ 13$$ of 13 This information was generated by the HP KEYMARK database on 17 Dec 2020

EN 14511-2		
	Low temperature	Medium temperature
Heat output	16.40 kW	13.40 kW
El input	4.02 kW	5.21 kW
СОР	4.08	2.57
Indoor water flow rate	2.56 m³/h	1.44 m³/h

EN 14511-4	
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed