

This information was generated by the HP KEYMARK database on 17 Dec 2020

Summary of	PAC BT MB 12/14/16 kW 3ph	Reg. No.	ICIM-PDC-000010
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 12/14/16 kW 3ph		
Heat Pump Type	Outdoor Air/Water		
Refrigerant	R410a		
Mass Of Refrigerant	3.6 kg		
Certification Date	30.07.2018		

Model: PAC BT MB 12KW H13

General Data

Power supply	3x400V 50Hz
--------------	-------------

Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	12.30 kW	12.50 kW
El input	2.71 kW	4.43 kW
COP	4.54	2.82
Indoor water flow rate	2.09 m ³ /h	1.33 m ³ /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

This information was generated by the HP KEYMARK database on 17 Dec 2020

EN 12102-1

	Low temperature	Medium temperature
Sound power level outdoor	70 dB(A)	70 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	175 %	127 %
Prated	12.00 kW	11.00 kW
SCOP	4.46	3.26
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	10.60 kW	9.50 kW
COP Tj = -7°C	2.83	1.93
Pdh Tj = +2°C	6.60 kW	6.20 kW
COP Tj = +2°C	4.08	3.18
Pdh Tj = +7°C	4.40 kW	4.00 kW
COP Tj = +7°C	6.22	4.50
Pdh Tj = 12°C	3.70 kW	2.70 kW
COP Tj = 12°C	9.37	5.01
Pdh Tj = Tbiv	10.60 kW	9.50 kW
COP Tj = Tbiv	2.83	1.93

This information was generated by the HP KEYMARK database on 17 Dec 2020

Pdh Tj = TOL	10.90 kW	10.60 kW
COP Tj = TOL	2.47	1.66
Cdh	0.90	0.90
WTOL	49 °C	49 °C
Poff	27 W	27 W
PTO	6 W	6 W
PSB	27 W	27 W
PCK	1 W	1 W
Supplementary Heater: Type of energy input	electric	electric
Supplementary Heater: PSUP	1.10 kW	0.40 kW
Annual energy consumption Qhe	5552 kWh	6850 kWh

Model: PAC BT MB 14KW H13

General Data

Power supply	3x400V 50Hz
--------------	-------------

Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	14.10 kW	14.40 kW
El input	3.24 kW	5.16 kW
COP	4.35	2.79
Indoor water flow rate	2.34 m ³ /h	1.55 m ³ /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

This information was generated by the HP KEYMARK database on 17 Dec 2020

EN 12102-1

	Low temperature	Medium temperature
Sound power level outdoor	70 dB(A)	73 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	170 %	128 %
Prated	14.00 kW	13.00 kW
SCOP	4.33	3.28
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	12.00 kW	11.60 kW
COP Tj = -7°C	2.66	2.02
Pdh Tj = +2°C	7.20 kW	7.50 kW
COP Tj = +2°C	3.97	3.10
Pdh Tj = +7°C	4.90 kW	4.70 kW
COP Tj = +7°C	6.36	4.68
Pdh Tj = 12°C	3.80 kW	2.80 kW
COP Tj = 12°C	9.00	5.20
Pdh Tj = Tbiv	12.00 kW	11.60 kW
COP Tj = Tbiv	2.66	2.02

This information was generated by the HP KEYMARK database on 17 Dec 2020

Pdh Tj = TOL	10.90 kW	11.70 kW
COP Tj = TOL	2.41	1.77
Cdh	0.90	0.90
WTOL	49 °C	49 °C
Poff	27 W	27 W
PTO	6 W	6 W
PSB	27 W	27 W
PCK	1 W	1 W
Supplementary Heater: Type of energy input	electric	electric
Supplementary Heater: PSUP	2.70 kW	1.50 kW
Annual energy consumption Qhe	6474 kWh	8291 kWh

Model: PAC BT MB 16KW H13

General Data

Power supply	3x400V 50Hz
--------------	-------------

Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	16.30 kW	16.20 kW
El input	3.89 kW	5.87 kW
COP	4.19	2.76
Indoor water flow rate	2.56 m ³ /h	1.73 m ³ /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

This information was generated by the HP KEYMARK database on 17 Dec 2020

EN 12102-1

	Low temperature	Medium temperature
Sound power level outdoor	73 dB(A)	73 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	165 %	126 %
Prated	16.00 kW	14.00 kW
SCOP	4.20	3.22
Tbiv	-5 °C	-6 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	12.00 kW	11.70 kW
COP Tj = -7°C	2.65	1.99
Pdh Tj = +2°C	8.60 kW	7.80 kW
COP Tj = +2°C	3.97	3.02
Pdh Tj = +7°C	5.60 kW	5.10 kW
COP Tj = +7°C	6.03	4.70
Pdh Tj = 12°C	4.00 kW	2.80 kW
COP Tj = 12°C	8.54	5.28
Pdh Tj = Tbiv	13.00 kW	12.10 kW
COP Tj = Tbiv	2.90	2.09

This information was generated by the HP KEYMARK database on 17 Dec 2020

Pdh Tj = TOL	11.00 kW	10.60 kW
COP Tj = TOL	2.36	1.78
Cdh	0.90	0.90
WTOL	49 °C	49 °C
Poff	27 W	27 W
PTO	6 W	6 W
PSB	27 W	27 W
PCK	1 W	1 W
Supplementary Heater: Type of energy input	electric	electric
Supplementary Heater: PSUP	5.10 kW	3.70 kW
Annual energy consumption Qhe	7918 kWh	9172 kWh