Login

Summary of	PAC BT MB 12/14/16 kW 3ph	Reg. No.	ICIM-PDC-000010
Certificate Holder			
Name	Airwell Residential S.A.S.		
Address	10, rue du Fort de Saint Cyr	Zip	78180
City	Montigny le Bretonneux	Country	France
Certification Body	ICIM S.p.A.		
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		

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Model: PAC BT MB 12KW H13

Configure model	
Model name	PAC BT MB 12KW H13
Application	Heating (medium temp)
Units	Outdoor
Climate Zone	n/a
Reversibility	No
Cooling mode application (optional)	n/a

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

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

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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

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Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.90 kW	10.60 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.47	1.66
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	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	Electricity	Electricity
Supplementary Heater: PSUP	1.10 kW	0.40 kW
Annual energy consumption Qhe	5552 kWh	6850 kWh

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Model: PAC BT MB 14KW H13

Configure model	
Model name	PAC BT MB 14KW H13
Application	Heating (medium temp)
Units	Outdoor
Climate Zone	n/a
Reversibility	No
Cooling mode application (optional)	n/a

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

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

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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

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Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.90 kW	11.70 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.41	1.77
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	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	Electricity	Electricity
Supplementary Heater: PSUP	2.70 kW	1.50 kW
Annual energy consumption Qhe	6474 kWh	8291 kWh

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Model: PAC BT MB 16KW H13

Configure model	
Model name	PAC BT MB 16KW H13
Application	Heating (medium temp)
Units	Outdoor
Climate Zone	n/a
Reversibility	No
Cooling mode application (optional)	n/a

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

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

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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

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Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	11.00 kW	10.60 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.36	1.78
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	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	Electricity	Electricity
Supplementary Heater: PSUP	5.10 kW	3.70 kW
Annual energy consumption Qhe	7918 kWh	9172 kWh

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