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Summary of	WELLEA MONOBLOC 12/14/16 KW 3ph	Reg. No.	ICIM-PDC-000054-00
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	OBL products - ReLab Politecnico Milano		
Subtype title	WELLEA MONOBLOC 12/14/16 KW 3ph		
Heat Pump Type	Outdoor Air/Water		
Refrigerant	R32		
Mass Of Refrigerant	2.8 kg		
Certification Date	17.01.2020		
Testing basis	EN 14511:2013, EN 14825:2016, EN 12102:2013		

Model: WELLEA MONOBLOC 12 KW 3PH

General Data	
Power supply	3x400V 50Hz

Heating

EN 14511-4	
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

EN 14511-2		
	Low temperature	**Medium temperature**
Heat output	12.30 kW	11.90 kW
El input	2.54 kW	4.23 kW
COP	4.84	2.81
Indoor water flow rate	2.12 m³/h	1.28 m³/h

Average Climate

EN 12102-1		
	Low temperature	**Medium temperature**
Sound power level outdoor	68 dB(A)	68 dB(A)

EN 14825		
	Low temperature	**Medium temperature**
η_s	169 %	126 %
Prated	12.00 kW	13.00 kW
SCOP	4.29	3.23
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	10.52 kW	11.29 kW
COP Tj = -7°C	2.88	2.05
Cdh	0.90	0.90
Pdh Tj = +2°C	6.50 kW	7.31 kW
COP Tj = +2°C	4.15	3.14
Cdh	0.90	0.90
Pdh Tj = +7°C	4.12 kW	4.96 kW
COP Tj = +7°C	5.74	4.25
Cdh	0.90	0.90
Pdh Tj = 12°C	2.23 kW	2.37 kW

COP Tj = 12°C	5.40	4.94
Cdh	0.90	0.90
Pdh Tj = Tbiv	10.52 kW	11.29 kW
COP Tj = Tbiv	2.88	2.05
Pdh Tj = TOL	12.01 kW	11.88 kW
COP Tj = TOL	2.60	1.79
WTOL	60 °C	60 °C
Poff	9 W	9 W
PTO	15 W	15 W
PSB	9 W	9 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	electric	electric
Supplementary Heater: PSUP	0.00 kW	0.90 kW
Annual energy consumption Qhe	5726 kWh	8164 kWh

Model: WELLEA MONOBLOC 14 KW 3PH

General Data	
Power supply	3x400V 50Hz

Heating

EN 14511-4	
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

EN 14511-2		
	Low temperature	**Medium temperature**
Heat output	14.10 kW	14.20 kW
El input	3.05 kW	5.09 kW
COP	4.63	2.79
Indoor water flow rate	2.43 m³/h	1.53 m³/h

Average Climate

EN 12102-1		
	Low temperature	**Medium temperature**
Sound power level outdoor	71 dB(A)	71 dB(A)

EN 14825		
	Low temperature	**Medium temperature**
η_s	168 %	128 %
Prated	14.00 kW	14.00 kW
SCOP	4.27	3.26
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	12.47 kW	12.18 kW
COP Tj = -7°C	2.84	2.05
Cdh	0.90	0.90
Pdh Tj = +2°C	7.48 kW	7.84 kW
COP Tj = +2°C	4.19	3.18
Cdh	0.90	0.90
Pdh Tj = +7°C	2.23 kW	2.57 kW
COP Tj = +7°C	5.30	5.14
Cdh	0.90	0.90
Pdh Tj = 12°C	2.23 kW	2.57 kW

COP Tj = 12°C	5.30	5.14
Cdh	0.90	0.90
Pdh Tj = Tbiv	12.47 kW	12.18 kW
COP Tj = Tbiv	2.84	2.05
Pdh Tj = TOL	12.72 kW	11.68 kW
COP Tj = TOL	2.51	1.74
WTOL	60 °C	60 °C
Poff	9 W	9 W
PTO	26 W	26 W
PSB	9 W	9 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	electric	electric
Supplementary Heater: PSUP	1.40 kW	2.10 kW
Annual energy consumption Qhe	6819 kWh	8724 kWh

Model: WELLEA MONOBLOC 16KW 3PH

General Data	
Power supply	3x400V 50Hz

Heating

EN 14511-2		
	Low temperature	**Medium temperature**
Heat output	16.30 kW	16.10 kW
El input	3.63 kW	5.83 kW
COP	4.49	2.76
Indoor water flow rate	2.80 m³/h	1.73 m³/h

EN 14511-4	
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

Average Climate

EN 12102-1		
	Low temperature	**Medium temperature**
Sound power level outdoor	71 dB(A)	71 dB(A)

EN 14825		
	Low temperature	**Medium temperature**
η_s	169 %	128 %
Prated	16.00 kW	15.00 kW
SCOP	4.30	3.27
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	14.15 kW	12.90 kW
COP Tj = -7°C	2.72	2.04
Cdh	0.90	0.90
Pdh Tj = +2°C	8.92 kW	8.25 kW
COP Tj = +2°C	4.17	3.21
Cdh	0.90	0.90
Pdh Tj = +7°C	5.64 kW	5.45 kW
COP Tj = +7°C	5.86	4.32
Cdh	0.90	0.90
Pdh Tj = 12°C	2.47 kW	2.57 kW

COP Tj = 12°C	6.28	5.12
Cdh	0.90	0.90
Pdh Tj = Tbiv	14.15 kW	12.90 kW
COP Tj = Tbiv	2.72	2.04
Pdh Tj = TOL	12.93 kW	11.16 kW
COP Tj = TOL	2.41	1.65
WTOL	60 °C	60 °C
Poff	9 W	9 W
PTO	41 W	41 W
PSB	9 W	9 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	electric	electric
Supplementary Heater: PSUP	3.10 kW	3.40 kW
Annual energy consumption Qhe	7687 kWh	9216 kWh