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Summary of	WELLEA MONOBLOC 12/14/16 KW 1ph	Reg. No.	ICIM-PDC-000055-00
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	WELLEA MONOBLOC 12/14/16 KW 1ph		
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 1PH

Configure model	
Model name	WELLEA MONOBLOC 12 KW 1PH
Application	Heating (medium temp)
Units	Outdoor
Climate Zone	n/a
Reversibility	Yes
Cooling mode application (optional)	n/a

General Data	
Power supply	1x230V 50Hz

## Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	12.30 kW	11.90 kW
El input	2.56 kW	4.28 kW
COP	4.81	0.78

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

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### EN 12102-1

	Low temperature	Medium temperature
Sound power level outdoor	68 dB(A)	68 dB(A)

### EN 14825

	Low temperature	Medium temperature
$\eta_s$	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 Tj = -7 °C	0.90	0.90
Pdh Tj = +2°C	6.50 kW	7.31 kW
COP Tj = +2°C	4.15	3.14
Cdh Tj = +2 °C	0.90	0.90
Pdh Tj = +7°C	4.12 kW	4.96 kW
COP Tj = +7°C	5.74	4.25
Cdh Tj = +7 °C	0.90	0.90
Pdh Tj = 12°C	2.23 kW	2.37 kW

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COP Tj = 12°C	5.40	4.94
Cdh Tj = +12 °C	0.90	0.90
Pdh Tj = Tbiv	10.52 kW	11.29 kW
COP Tj = Tbiv	2.88	2.05
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	12.01 kW	11.88 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	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	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.90 kW
Annual energy consumption Qhe	5726 kWh	8164 kWh

## Model: WELLEA MONOBLOC 14 KW 1PH

Configure model	
Model name	WELLEA MONOBLOC 14 KW 1PH
Application	Heating (medium temp)
Units	Outdoor
Climate Zone	n/a
Reversibility	Yes
Cooling mode application (optional)	n/a

General Data	
Power supply	1x230V 50Hz

### Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	14.10 kW	14.20 kW
El input	3.07 kW	5.16 kW
COP	4.60	2.75

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

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### EN 12102-1

	Low temperature	Medium temperature
Sound power level outdoor	71 dB(A)	71 dB(A)

### EN 14825

	Low temperature	Medium temperature
$\eta_s$	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 Tj = -7 °C	0.90	0.90
Pdh Tj = +2°C	7.48 kW	7.84 kW
COP Tj = +2°C	4.19	3.18
Cdh Tj = +2 °C	0.90	0.90
Pdh Tj = +7°C	5.04 kW	5.21 kW
COP Tj = +7°C	5.99	4.29
Cdh Tj = +7 °C	0.90	0.90
Pdh Tj = 12°C	2.23 kW	2.57 kW

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COP Tj = 12°C	5.30	5.14
Cdh Tj = +12 °C	0.90	0.90
Pdh Tj = Tbiv	12.47 kW	12.18 kW
COP Tj = Tbiv	2.84	2.05
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	12.72 kW	11.68 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	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	Electricity	Electricity
Supplementary Heater: PSUP	1.40 kW	2.10 kW
Annual energy consumption Qhe	6819 kWh	8724 kWh

## Model: WELLEA MONOBLOC 16 KW 1PH

Configure model	
Model name	WELLEA MONOBLOC 16 KW 1PH
Application	Heating (medium temp)
Units	Outdoor
Climate Zone	n/a
Reversibility	Yes
Cooling mode application (optional)	n/a

General Data	
Power supply	1x230V 50Hz

### Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	16.30 kW	16.10 kW
El input	3.66 kW	5.90 kW
COP	4.45	2.73

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



This information was generated by the HP KEYMARK database on 18 Mar 2022

### EN 12102-1

	Low temperature	Medium temperature
Sound power level outdoor	71 dB(A)	71 dB(A)

### EN 14825

	Low temperature	Medium temperature
$\eta_s$	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 Tj = -7 °C	0.90	0.90
Pdh Tj = +2°C	8.92 kW	8.25 kW
COP Tj = +2°C	4.17	3.21
Cdh Tj = +2 °C	0.90	0.90
Pdh Tj = +7°C	5.64 kW	5.45 kW
COP Tj = +7°C	5.86	4.32
Cdh Tj = +7 °C	0.90	0.90
Pdh Tj = 12°C	2.47 kW	2.57 kW

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COP Tj = 12°C	6.28	5.12
Cdh Tj = +12 °C	0.90	0.90
Pdh Tj = Tbiv	14.15 kW	12.90 kW
COP Tj = Tbiv	2.72	2.04
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	12.93 kW	11.16 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	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	Electricity	Electricity
Supplementary Heater: PSUP	3.10 kW	3.40 kW
Annual energy consumption Qhe	7687 kWh	9216 kWh