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

Summary of	Wellea Split WT 4 6 kW	Reg. No.	ICIM-PDC-000064-01
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	Not Applicable - OBL		
Subtype title	Wellea Split WT 4 6 kW		
Heat Pump Type	Outdoor Air/Water		
Refrigerant	R32		
Mass Of Refrigerant	1.55 kg		
Certification Date	22.04.2020		
Testing basis	EN 14511:2013, EN 14825:2016, EN 16147:17; EN 12102:2013		

Model: AW-YHPS04-H91 + AW-WHPST0410-N91

General Data	
Power supply	1x230V 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	4.49 kW	4.10 kW
El input	0.92 kW	1.48 kW
COP	4.87	2.77
Indoor water flow rate	0.78 m³/h	0.45 m³/h

Average Climate

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	39 dB(A)	39 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	186 %	132 %
Prated	4.52 kW	5.41 kW
SCOP	4.73	3.37
Tbiv	-7 °C	-5 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	4.00 kW	4.26 kW
COP Tj = -7°C	3.26	2.10
Cdh	0.90	0.90
Pdh Tj = +2°C	2.37 kW	3.09 kW
COP Tj = +2°C	4.70	3.28
Cdh	0.90	0.90
Pdh Tj = +7°C	1.63 kW	1.98 kW
COP Tj = +7°C	5.78	4.49
Cdh	0.90	0.90

Pdh Tj = 12°C	1.38 kW	1.27 kW
COP Tj = 12°C	7.31	5.53
Cdh	0.90	0.90
Pdh Tj = Tbiv	4.00 kW	4.37 kW
COP Tj = Tbiv	3.26	2.38
Pdh Tj = TOL	3.81 kW	4.68 kW
COP Tj = TOL	2.80	1.93
WTOL	60 °C	60 °C
Poff	15 W	15 W
PTO	15 W	15 W
PSB	15 W	15 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	electric	electric
Supplementary Heater: PSUP	0.71 kW	0.73 kW
Annual energy consumption Qhe	1978 kWh	3320 kWh

Warmer Climate

EN 12102-1	
	Low temperature
Sound power level indoor	39 dB(A)
Sound power level outdoor	61 dB(A)

Colder Climate

EN 12102-1	
	Low temperature
Sound power level indoor	39 dB(A)
Sound power level outdoor	61 dB(A)

Domestic Hot Water (DHW)

Average Climate

EN 16147	
Declared load profile	L
Efficiency ηDHW	115 %
COP	2.71
Heating up time	2:47 h:min
Standby power input	47.0 W
Reference hot water temperature	48.6 °C
Mixed water at 40°C	200 l

Warmer Climate

Colder Climate

Model: AW-YHPS06-H91 + AW-WHPST0410-N91

General Data	
Power supply	1x230V 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	6.32 kW	5.47 kW
El input	1.36 kW	1.87 kW
COP	4.66	2.92
Indoor water flow rate	1.10 m³/h	0.60 m³/h

Average Climate

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	39 dB(A)	39 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	193 %	132 %
Prated	5.91 kW	5.84 kW
SCOP	4.89	3.37
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.23 kW	5.17 kW
COP Tj = -7°C	3.09	2.09
Cdh	0.90	0.90
Pdh Tj = +2°C	3.20 kW	3.09 kW
COP Tj = +2°C	4.58	3.28
Cdh	0.90	0.90
Pdh Tj = +7°C	2.21 kW	1.98 kW
COP Tj = +7°C	7.18	4.49
Cdh	0.90	0.90

Pdh Tj = 12°C	1.38 kW	1.27 kW
COP Tj = 12°C	7.31	5.53
Cdh	0.90	0.90
Pdh Tj = Tbiv	5.23 kW	5.17 kW
COP Tj = Tbiv	3.09	2.09
Pdh Tj = TOL	5.24 kW	4.79 kW
COP Tj = TOL	2.67	1.85
WTOL	60 °C	60 °C
Poff	15 W	15 W
PTO	15 W	15 W
PSB	15 W	15 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	electric	electric
Supplementary Heater: PSUP	0.67 kW	1.05 kW
Annual energy consumption Qhe	2501 kWh	3586 kWh

Warmer Climate

EN 12102-1	
	Low temperature
Sound power level indoor	39 dB(A)
Sound power level outdoor	62 dB(A)

Colder Climate

EN 12102-1	
	Low temperature
Sound power level indoor	39 dB(A)
Sound power level outdoor	62 dB(A)

Domestic Hot Water (DHW)

Average Climate

EN 16147	
Declared load profile	L
Efficiency ηDHW	115 %
COP	2.71
Heating up time	2:47 h:min
Standby power input	47.0 W
Reference hot water temperature	48.6 °C
Mixed water at 40°C	200 l

Warmer Climate

Colder Climate