

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

Summary of	Alféa Excellia HP A.I. 16	Reg. No.	012-SC0755-18
Certificate Holder			
Name	Groupe Atlantic		
Address	44 boulevard des Etats-Unis	Zip	85000
City	La Roche Sur Yon	Country	France
Certification Body	RISE CERT		
Name of testing laboratory	RISE		
Subtype title	Alféa Excellia HP A.I. 16		
Heat Pump Type	Outdoor Air/Water		
Refrigerant	R410a		
Mass Of Refrigerant	3.8 kg		

Model: Alf a Excellia HP A.I. 16

General Data

Power supply	1x230V 50Hz
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Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	16.46 kW	14.86 kW
El input	3.94 kW	5.65 kW
COP	4.18	2.63
Indoor water flow rate	2.84 m ³ /h	1.62 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

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EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	45 dB(A)	45 dB(A)
Sound power level outdoor	67 dB(A)	67 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	163 %	125 %
Prated	16.00 kW	14.00 kW
SCOP	4.15	3.21
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	14.20 kW	12.00 kW
COP Tj = -7°C	2.79	1.98
Pdh Tj = +2°C	8.70 kW	7.30 kW
COP Tj = +2°C	4.17	3.15
Pdh Tj = +7°C	7.00 kW	6.30 kW
COP Tj = +7°C	5.34	4.30
Pdh Tj = 12°C	8.10 kW	7.60 kW
COP Tj = 12°C	6.76	5.99
Pdh Tj = Tbiv	14.20 kW	12.00 kW

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COP $T_j = T_{biv}$	2.79	1.98
P _{dh} $T_j = TOL$	14.10 kW	10.60 kW
COP $T_j = TOL$	2.54	1.75
C _{dh}	0.92	0.96
WTOL	65 °C	65 °C
P _{off}	19 W	19 W
P _{TO}	100 W	46 W
P _{SB}	23 W	23 W
P _{CK}	0 W	0 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: P _{SUP}	2.00 kW	3.00 kW
Annual energy consumption Q _{he}	8014 kWh	8757 kWh

Model: Alf a Excellia HP Duo A.I. 16

General Data

Power supply	1x230V 50Hz
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Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	16.46 kW	14.86 kW
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COP	4.18	2.63
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EN 14511-4

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Pdh Tj = Tbiv	14.20 kW	12.00 kW

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COP Tj = Tbiv	2.79	1.98
Pdh Tj = TOL	14.10 kW	10.60 kW
COP Tj = TOL	2.54	1.75
Cdh	0.92	0.96
WTOL	65 °C	65 °C
Poff	19 W	19 W
PTO	100 W	46 W
PSB	23 W	23 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	2.00 kW	3.00 kW
Annual energy consumption Qhe	8014 kWh	8757 kWh

Domestic Hot Water (DHW)

Average Climate

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EN 16147	
Declared load profile	L
Efficiency η_{DHW}	109 %
COP	2.56
Heating up time	0:54 h:min
Standby power input	48.0 W
Reference hot water temperature	54.2 °C
Mixed water at 40°C	250 l