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Summary of	IDEAL HEATING Alféa Excellia A.I. 14	Reg. No.	012-SC0135-19
Certificate Holder			
Name	Groupe Atlantic		
Address	44 boulevard des Etats-Unis	Zip	85000
City	La Roche Sur Yon	Country	France
Certification Body	RISE CERT		
Subtype title	IDEAL HEATING Alféa Excellia A.I. 14		
Heat Pump Type	Outdoor Air/Water		
Refrigerant	R410A		
Mass of Refrigerant	2.5 kg		
Certification Date	04.04.2020		

Model: IDEAL HEATING Alféa Excellia A.I. 14

Configure model

Model name	IDEAL HEATING Alféa Excellia A.I. 14
Application	Heating (medium temp)
Units	Indoor + Outdoor
Climate Zone	n/a
Reversibility	No
Cooling mode application (optional)	n/a

General Data

Power supply	1x230V 50Hz
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Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	13.50 kW	9.48 kW
El input	3.23 kW	3.95 kW
COP	4.18	2.40

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	46 dB(A)	46 dB(A)
Sound power level outdoor	69 dB(A)	69 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	148 %	113 %
Prated	13.00 kW	11.00 kW
SCOP	3.77	2.90
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	11.10 kW	10.00 kW
COP Tj = -7°C	2.50	1.90
Pdh Tj = +2°C	6.70 kW	6.10 kW
COP Tj = +2°C	3.60	2.80
Pdh Tj = +7°C	6.20 kW	5.90 kW
COP Tj = +7°C	5.40	3.90
Pdh Tj = 12°C	7.30 kW	7.10 kW
COP Tj = 12°C	6.90	5.10
Pdh Tj = Tbiv	11.10 kW	10.00 kW

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COP $T_j = T_{biv}$	2.50	1.90
$P_{dh} T_j = TOL$ or $P_{dh} T_j = T_{designh}$ if $TOL < T_{designh}$	10.80 kW	9.30 kW
COP $T_j = TOL$ or COP $T_j = T_{designh}$ if $TOL < T_{designh}$	2.40	1.70
$C_{dh} T_j = TOL$ or $P_{dh} T_j = T_{designh}$ if $TOL < T_{designh}$	0.90	0.90
WTOL	60 °C	60 °C
P _{off}	8 W	8 W
PTO	72 W	25 W
PSB	12 W	12 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.70 kW	2.10 kW
Annual energy consumption Q _{he}	6824 kWh	8041 kWh