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Summary of	IDEAL HEATING Alféa Excellia A.I. 16 Tri	Reg. No.	012-SC0137-19
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. 16 Tri		
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. Tri 16

Configure model	
Model name	IDEAL HEATING Alféa Excellia A.I. Tri 16
Application	Heating (medium temp)
Units	Indoor + Outdoor
Climate Zone	n/a
Reversibility	No
Cooling mode application (optional)	n/a

General Data	
Power supply	3x400V 50Hz

Heating

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

EN 14511-2		
	Low temperature	Medium temperature
Heat output	15.17 kW	12.24 kW
El input	3.70 kW	4.93 kW
COP	4.10	2.48

Average Climate

This information was generated by the HP KEYMARK database on 21 Jun 2022

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	149 %	117 %
Prated	14.00 kW	13.00 kW
SCOP	3.80	3.00
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	12.00 kW	11.50 kW
COP Tj = -7°C	2.40	1.80
Pdh Tj = +2°C	7.30 kW	7.00 kW
COP Tj = +2°C	3.60	2.90
Pdh Tj = +7°C	6.30 kW	5.80 kW
COP Tj = +7°C	5.50	4.10
Pdh Tj = 12°C	7.40 kW	7.10 kW
COP Tj = 12°C	7.20	5.50
Pdh Tj = Tbiv	12.00 kW	11.50 kW

This information was generated by the HP KEYMARK database on 21 Jun 2022

COP $T_j = T_{biv}$	2.40	1.80
$P_{dh} T_j = TOL$ or $P_{dh} T_j = T_{designh}$ if $TOL < T_{designh}$	11.70 kW	10.30 kW
COP $T_j = TOL$ or COP $T_j = T_{designh}$ if $TOL < T_{designh}$	2.30	1.60
$C_{dh} T_j = TOL$ or $P_{dh} T_j = T_{designh}$ if $TOL < T_{designh}$	0.90	0.90
WTOL	60 °C	60 °C
Poff	14 W	14 W
PTO	88 W	32 W
PSB	17 W	17 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.90 kW	2.70 kW
Annual energy consumption Q_{he}	7408 kWh	9062 kWh