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

Summary of	THERMOR Alféa Excellia A.I. Tri size 11	Reg. No.	012-SC0219-19
Certificate Holder			
Name	Groupe Atlantic		
Address	44 boulevard des Etats-Unis	Zip	85000
City	La Roche Sur Yon	Country	France
Certification Body	RISE CERT		
Name of testing laboratory	SP		
Subtype title	THERMOR Alféa Excellia A.I. Tri size 11		
Heat Pump Type	Outdoor Air/Water		
Refrigerant	R410a		
Mass Of Refrigerant	2.5 kg		
Certification Date	05.06.2019		

Model: THERMOR Alféa Excellia Duo A.I. Tri 11

General Data	
Power supply	3x400V 50Hz

Heating

EN 14511-2		
	Low temperature	**Medium temperature**
Heat output	10.80 kW	9.29 kW
El input	2.51 kW	3.52 kW
COP	4.30	2.64
Indoor water flow rate	1.85 m³/h	1.00 m³/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

EN 12102-1		
	Low temperature	**Medium temperature**
Sound power level indoor	46 dB(A)	46 dB(A)
Sound power level outdoor	68 dB(A)	68 dB(A)

EN 14825		
	Low temperature	**Medium temperature**
η_s	154 %	112 %
Prated	11.00 kW	9.00 kW
SCOP	3.92	2.87
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	10.00 kW	8.20 kW
COP Tj = -7°C	2.70	1.90
Pdh Tj = +2°C	6.10 kW	5.00 kW
COP Tj = +2°C	3.70	2.70
Pdh Tj = +7°C	6.20 kW	5.90 kW
COP Tj = +7°C	5.50	3.90
Pdh Tj = 12°C	7.40 kW	7.00 kW
COP Tj = 12°C	7.10	5.20
Pdh Tj = Tbiv	10.00 kW	8.20 kW

COP Tj = Tbiv	2.70	1.90
Pdh Tj = TOL	9.90 kW	8.10 kW
COP Tj = TOL	2.30	1.60
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	14 W	14 W
PTO	44 W	32 W
PSB	17 W	17 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	1.40 kW	1.20 kW
Annual energy consumption Qhe	5930 kWh	6669 kWh

Domestic Hot Water (DHW)

Average Climate

EN 16147

Declared load profile	L
Efficiency ηDHW	88 %
COP	2.30
Heating up time	0:46 h:min
Standby power input	40.0 W
Reference hot water temperature	54.0 °C
Mixed water at 40°C	250 l

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El input	2.51 kW	3.52 kW
COP	4.30	2.64
Indoor water flow rate	1.85 m³/h	1.00 m³/h

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Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed
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