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

Summary of	THERMOR Alféa Extensa A.I. 5 R32	Reg. No.	012-C700009
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	Cetiat		
Subtype title	THERMOR Alféa Extensa A.I. 5 R32		
Heat Pump Type	Outdoor Air/Water		
Refrigerant	R32		
Mass Of Refrigerant	0.97 kg		
Certification Date	04.03.2020		
Testing basis	HP Keymark Scheme Rules rev 7		

Model: THERMOR Alféa Extensa A.I. 5 R32

General Data	
Power supply	1x230V 50Hz

Heating

EN 14511-2		
	Low temperature	**Medium temperature**
Heat output	4.50 kW	4.50 kW
El input	0.95 kW	1.70 kW
COP	4.74	2.64
Indoor water flow rate	0.43 m³/h	0.51 m³/h

EN 14511-4	
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Starting and operating test	passed

Average Climate

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	175 %	125 %
Prated	5.00 kW	5.00 kW
SCOP	4.45	3.20
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	4.40 kW	4.20 kW
COP Tj = -7°C	2.84	1.99
Cdh	0.96	0.97
Pdh Tj = +2°C	2.70 kW	2.50 kW
COP Tj = +2°C	4.40	3.11
Cdh	0.96	0.97
Pdh Tj = +7°C	2.10 kW	1.90 kW
COP Tj = +7°C	5.85	4.25
Cdh	0.96	0.97

Pdh Tj = 12°C	2.40 kW	2.30 kW
COP Tj = 12°C	7.39	5.91
Cdh	0.96	0.97
Pdh Tj = Tbiv	4.40 kW	4.20 kW
COP Tj = Tbiv	2.84	1.99
Pdh Tj = TOL	4.00 kW	3.80 kW
COP Tj = TOL	2.68	1.71
WTOL	55 °C	55 °C
Poff	4 W	4 W
PTO	12 W	13 W
PSB	10 W	10 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.00 kW	1.00 kW
Annual energy consumption Qhe	2322 kWh	3035 kWh

Model: THERMOR Alféa Extensa Duo A.I. 5 R32

General Data	
Power supply	1x230V 50Hz

Heating

EN 14511-2		
	Low temperature	**Medium temperature**
Heat output	4.50 kW	4.50 kW
El input	0.95 kW	1.70 kW
COP	4.74	2.64
Indoor water flow rate	0.43 m³/h	0.51 m³/h

EN 14511-4	
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Starting and operating test	passed

Average Climate

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	Low temperature	**Medium temperature**
Sound power level indoor	40 dB(A)	40 dB(A)
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Pdh Tj = -7°C	4.40 kW	4.20 kW
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Pdh Tj = +2°C	2.70 kW	2.50 kW
COP Tj = +2°C	4.40	3.11
Cdh	0.96	0.97
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Cdh	0.96	0.97

Pdh Tj = 12°C	2.40 kW	2.30 kW
COP Tj = 12°C	7.39	5.91
Cdh	0.96	0.97
Pdh Tj = Tbiv	4.40 kW	4.20 kW
COP Tj = Tbiv	2.84	1.99
Pdh Tj = TOL	4.00 kW	3.80 kW
COP Tj = TOL	2.68	1.71
WTOL	55 °C	55 °C
Poff	4 W	4 W
PTO	12 W	13 W
PSB	10 W	10 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electicity	Electicity
Supplementary Heater: PSUP	1.00 kW	1.00 kW
Annual energy consumption Qhe	2322 kWh	3035 kWh

Domestic Hot Water (DHW)

Average Climate

EN 16147

Efficiency ηDHW	130 %
COP	3.10
Heating up time	1:35 h:min
Standby power input	30.0 W
Reference hot water temperature	54.0 °C
Mixed water at 40°C	245 l
Declared load profile	L