Login

Summary of	THERMOR Alféa extensa A.I. 10 R32	Reg. No.	012-C700105
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	THERMOR Alféa extensa A.I. 10 R32		
Heat Pump Type	Outdoor Air/Water		
Refrigerant	R32		
Mass of Refrigerant	1.63 kg		
Certification Date	27.04.2021		
Testing basis	HP Keymark Scheme Rules rev 8		

Model: THERMOR Alféa extensa A.I. 10 R32

Configure model	
Model name	THERMOR Alféa extensa A.I. 10 R32
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

Heating

EN 14511-2		
	Low temperature	**Medium temperature**
Heat output	9.50 kW	9.00 kW
El input	2.10 kW	3.33 kW
COP	4.50	2.70

EN 14511-4	
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	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	62 dB(A)	62 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	178 %	130 %
Prated	8.50 kW	8.20 kW
SCOP	4.53	3.33
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	7.50 kW	7.30 kW
COP Tj = -7°C	2.98	2.05
Cdh Tj = -7 °C	0.990	0.990
Pdh Tj = +2°C	4.60 kW	4.40 kW
COP Tj = +2°C	4.46	3.24
Cdh Tj = +2 °C	0.980	0.980
Pdh Tj = +7°C	3.90 kW	3.50 kW
COP Tj = +7°C	5.89	4.60
Cdh Tj = +7 °C	0.970	0.970

Pdh Tj = 12°C	4.40 kW	4.30 kW
COP Tj = 12°C	7.14	5.97
Cdh Tj = +12 °C	0.970	0.970
Pdh Tj = Tbiv	7.50 kW	7.30 kW
COP Tj = Tbiv	2.98	2.05
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.30 kW	7.10 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.71	1.72
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.990	0.990
WTOL	55 °C	55 °C
Poff	4 W	4 W
PTO	20 W	21 W
PSB	8 W	8 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.20 kW	1.10 kW
Annual energy consumption Qhe	3875 kWh	5083 kWh

Model: THERMOR Alféa extensa Duo A.I. 10 R32

Configure model	
Model name	THERMOR Alféa extensa Duo A.I. 10 R32
Application	Heating + DHW + low temp
Units	Indoor + Outdoor
Climate Zone	n/a
Reversibility	No
Cooling mode application (optional)	n/a

General Data	
Power supply	1x230V 50Hz

Heating

EN 14511-2		
	Low temperature	**Medium temperature**
Heat output	9.50 kW	9.00 kW
El input	2.10 kW	3.33 kW
COP	4.50	2.70

EN 14511-4	
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	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	62 dB(A)	62 dB(A)

EN 14825		
	Low temperature	**Medium temperature**
η_s	178 %	130 %
Prated	8.50 kW	8.20 kW
SCOP	4.53	3.33
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	7.50 kW	7.30 kW
COP Tj = -7°C	2.98	2.05
Cdh Tj = -7 °C	0.990	0.990
Pdh Tj = +2°C	4.60 kW	4.40 kW
COP Tj = +2°C	4.46	3.24
Cdh Tj = +2 °C	0.980	0.980
Pdh Tj = +7°C	3.90 kW	3.50 kW
COP Tj = +7°C	5.89	4.60
Cdh Tj = +7 °C	0.970	0.970

Pdh Tj = 12°C	4.40 kW	4.30 kW
COP Tj = 12°C	7.14	5.97
Cdh Tj = +12 °C	0.970	0.970
Pdh Tj = Tbiv	7.50 kW	7.30 kW
COP Tj = Tbiv	2.98	2.05
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.30 kW	7.10 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.71	1.72
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.990	0.990
WTOL	55 °C	55 °C
Poff	4 W	4 W
PTO	20 W	21 W
PSB	8 W	8 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.20 kW	1.10 kW
Annual energy consumption Qhe	3875 kWh	5083 kWh

Domestic Hot Water (DHW)

Average Climate

EN 16147

Declared load profile	L
Efficiency ηDHW	130 %
COP	3.10
Heating up time	1:15 h:min
Standby power input	35.0 W
Reference hot water temperature	54.0 °C
Mixed water at 40°C	245 l