

Subtype THERMOR Alf  a extensa A.I. 10 R32

Certificate Holder	Groupe Atlantic
Address	Rue des Fondeurs BP 64
ZIP	59660
City	Merville
Country	FR
Certification Body	RISE CERT
Subtype title	THERMOR Alf��a extensa A.I. 10 R32
Registration number	012-C700105
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
Testing laboratory	CETIAT, FR

**Model THERMOR Alf  a extensa A.I. 10 R32**

Model name	THERMOR Alf��a extensa A.I. 10 R32
Application	Heating (medium temp)
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

**General data**

Power supply	1x230V 50Hz
Off-peak product	n/a

**Outdoor Air/Water****EN 14511-4 | Heating**

Shutting off the heat transfer medium flow passed

Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

**EN 14511-2 | Heating**

	Low temperature	Medium temperature
Heat output	9.50 kW	9.00 kW
EI input	2.10 kW	3.33 kW
COP	4.50	2.70

**EN 12102-1 | Average Climate**

	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 | Average Climate**

	Low temperature	Medium temperature
$\eta_s$	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 Alf  a extensa Duo A.I. 10 R32**

Model name	THERMOR Alf��a extensa Duo A.I. 10 R32
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

**General data**

Power supply	1x230V 50Hz
Off-peak product	n/a

**Outdoor Air/Water****EN 16147 | Average Climate**

Declared load profile	L
Efficiency $\eta_{DHW}$	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

**EN 14511-4 | Heating**

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Defrost test	passed
Starting and operating test	passed

**EN 14511-2 | Heating**

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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
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Supplementary Heater: Type of energy input	Electricity	Electricity
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Annual energy consumption Qhe	3875 kWh	5083 kWh