

## Subtype THERMOR ALFEA EXTENSA S 5

Certificate Holder	Groupe Atlantic
Address	Rue des Fondateurs BP 64
ZIP	59660
City	Merville
Country	FR
Certification Body	RISE CERT
Subtype title	THERMOR ALFEA EXTENSA S 5
Registration number	012-C700393
Heat Pump Type	Outdoor Air/Water
Refrigerant	R32
Mass of Refrigerant	0.97 kg
Certification Date	21.05.2025
Testing basis	EN 14511:2018, EN 14825:2016, EN 16147:2017, EN 12102:2017
Testing laboratory	CETIAT, FR

## Model THERMOR ALFEA EXTENSA S 5

Model name	THERMOR ALFEA EXTENSA S 5
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	4.50 kW	4.50 kW
El input	0.95 kW	1.70 kW
COP	4.74	2.64

#### EN 12102-1 | Average Climate

	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 | Average Climate

	Low temperature	Medium temperature
$\eta_s$	175 %	125 %
Prated	5.00 kW	4.70 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 Tj = -7 °C	0.960	0.970
Pdh Tj = +2°C	2.70 kW	2.50 kW
COP Tj = +2°C	4.40	3.11
Cdh Tj = +2 °C	0.960	0.970
Pdh Tj = +7°C	2.10 kW	1.90 kW

COP Tj = +7°C	5.85	4.25
Cdh Tj = +7 °C	0.960	0.970
Pdh Tj = 12°C	2.40 kW	2.30 kW
COP Tj = 12°C	7.39	5.91
Cdh Tj = +12 °C	0.960	0.970
Pdh Tj = Tbiv	4.40 kW	4.20 kW
COP Tj = Tbiv	2.84	1.99
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.00 kW	3.80 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.68	1.71
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.960	0.970
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	0.90 kW
Annual energy consumption Qhe	2322 kWh	3035 kWh

## Model THERMOR ALFEA EXTENSA S DUO 5

Model name	THERMOR ALFEA EXTENSA S DUO 5
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	1:35 h:min
Standby power input	30.0 W
Reference hot water temperature	54.0 °C
Mixed water at 40°C	245 l

#### 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	4.50 kW	4.50 kW
El input	0.95 kW	1.70 kW
COP	4.74	2.64

#### EN 12102-1 | Average Climate

	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 | Average Climate

	Low temperature	Medium temperature
$\eta_s$	175 %	125 %
Prated	5.00 kW	4.70 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 Tj = -7 °C	0.960	0.970
Pdh Tj = +2°C	2.70 kW	2.50 kW
COP Tj = +2°C	4.40	3.11
Cdh Tj = +2 °C	0.960	0.970
Pdh Tj = +7°C	2.10 kW	1.90 kW
COP Tj = +7°C	5.85	4.25
Cdh Tj = +7 °C	0.960	0.970
Pdh Tj = 12°C	2.40 kW	2.30 kW
COP Tj = 12°C	7.39	5.91
Cdh Tj = +12 °C	0.960	0.970
Pdh Tj = Tbiv	4.40 kW	4.20 kW
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Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.960	0.970
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	0.90 kW
Annual energy consumption Qhe	2322 kWh	3035 kWh