

## Subtype THERMOR ALFEA EXTENSA A.I 162024

Certificate Holder	Groupe Atlantic
Address	Rue des Fondeurs BP 64
ZIP	59660
City	Merville
Country	FR
Certification Body	RISE CERT
Subtype title	THERMOR ALFEA EXTENSA A.I 162024
Registration number	012-C700287
Heat Pump Type	Outdoor Air/Water
Refrigerant	R410A
Mass of Refrigerant	2.5 kg
Certification Date	16.04.2024
Testing basis	EN 14511:2022, EN 14825:2022, EN 12102:2022

## Model THERMOR ALFEA EXTENSA A.I 16 2024

Model name	THERMOR ALFEA EXTENSA A.I 16 2024
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	13.50 kW	9.80 kW
El input	3.23 kW	4.00 kW
COP	4.18	2.45

#### EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	67 dB(A)	67 dB(A)

#### EN 14825 | Average Climate

	Low temperature	Medium temperature
$\eta_s$	155 %	120 %
Prated	13.20 kW	11.30 kW
SCOP	3.95	3.08
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	11.70 kW	10.00 kW
COP Tj = -7°C	2.55	2.01
Cdh Tj = -7 °C	1.000	1.000
Pdh Tj = +2°C	7.10 kW	6.10 kW
COP Tj = +2°C	3.72	2.92
Cdh Tj = +2 °C	0.990	0.990
Pdh Tj = +7°C	6.40 kW	6.00 kW

COP Tj = +7°C	5.59	4.22
Cdh Tj = +7 °C	0.980	0.990
Pdh Tj = 12°C	7.00 kW	7.20 kW
COP Tj = 12°C	6.60	5.49
Cdh Tj = +12 °C	0.980	0.980
Pdh Tj = Tbiv	11.70 kW	10.00 kW
COP Tj = Tbiv	2.55	2.01
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	11.20 kW	8.40 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.46	1.65
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	1.000	1.000
WTOL	60 °C	60 °C
Poff	7 W	7 W
PTO	20 W	20 W
PSB	10 W	10 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	2.00 kW	2.90 kW
Annual energy consumption Qhe	6899 kWh	7574 kWh