

Subtype THERMOR ALFEA EXCELLIA A.I. TRI 14 2024

Certificate Holder	Groupe Atlantic
Address	44 boulevard des Etats-Unis
ZIP	85000
City	La Roche Sur Yon
Country	FR
Certification Body	RISE CERT
Subtype title	THERMOR ALFEA EXCELLIA A.I. TRI 14 2024
Registration number	012-C700291
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 16147:2017, EN 12102:2022

Model THERMOR ALFEA EXCELLIA A.I. TRI 14 2024

Model name	THERMOR ALFEA EXCELLIA A.I. TRI 14 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	3x400V 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	13.10 kW	12.00 kW
El input	3.13 kW	4.71 kW
COP	4.18	2.55

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
η_s	157 %	125 %
Prated	13.00 kW	11.00 kW
SCOP	4.00	3.20
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	11.50 kW	9.70 kW
COP Tj = -7°C	2.50	2.05
Cdh Tj = -7 °C	1.000	1.000
Pdh Tj = +2°C	7.00 kW	5.90 kW
COP Tj = +2°C	3.87	3.04
Cdh Tj = +2 °C	0.990	0.990
Pdh Tj = +7°C	6.40 kW	5.90 kW

COP Tj = +7°C	5.34	4.50
Cdh Tj = +7 °C	0.980	0.980
Pdh Tj = 12°C	7.40 kW	7.10 kW
COP Tj = 12°C	7.25	5.82
Cdh Tj = +12 °C	0.980	0.980
Pdh Tj = Tbiv	11.50 kW	9.70 kW
COP Tj = Tbiv	2.50	2.05
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	11.20 kW	8.20 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.47	1.55
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	1.000	1.000
WTOL	60 °C	60 °C
Poff	10 W	10 W
PTO	24 W	24 W
PSB	14 W	14 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.80 kW	2.80 kW
Annual energy consumption Qhe	6714 kWh	7096 kWh

Model THERMOR ALFEA EXCELLIA DUO A.I. TRI 14 2024

Model name	THERMOR ALFEA EXCELLIA DUO A.I. TRI 14 2024
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	n/a
Off-peak product	n/a

Outdoor Air/Water

EN 16147 | Average Climate

Declared load profile	L
Efficiency η_{DHW}	100 %
COP	2.50
Heating up time	0:55 h:min
Standby power input	40.0 W
Reference hot water temperature	54.2 °C
Mixed water at 40°C	250 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	13.10 kW	12.00 kW
El input	3.13 kW	4.71 kW
COP	4.18	2.55

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
η_s	157 %	125 %
Prated	13.00 kW	11.00 kW
SCOP	4.00	3.20

Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	11.50 kW	9.70 kW
COP Tj = -7°C	2.50	2.05
Cdh Tj = -7 °C	1.000	1.000
Pdh Tj = +2°C	7.00 kW	5.90 kW
COP Tj = +2°C	3.87	3.04
Cdh Tj = +2 °C	0.990	0.990
Pdh Tj = +7°C	6.40 kW	5.90 kW
COP Tj = +7°C	5.34	4.50
Cdh Tj = +7 °C	0.980	0.980
Pdh Tj = 12°C	7.40 kW	7.10 kW
COP Tj = 12°C	7.25	5.82
Cdh Tj = +12 °C	0.980	0.980
Pdh Tj = Tbiv	11.50 kW	9.70 kW
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Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	11.20 kW	8.20 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.47	1.55
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WTOL	60 °C	60 °C
Poff	10 W	10 W
PTO	24 W	24 W
PSB	14 W	14 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.80 kW	2.80 kW
Annual energy consumption Qhe	6714 kWh	7096 kWh