

Subtype THERMOR Alféa Excellia A.I. Tri size 16

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 Alféa Excellia A.I. Tri size 16
Registration number	012-SC0221-19
Heat Pump Type	Outdoor Air/Water
Refrigerant	R410A
Mass of Refrigerant	2.5 kg
Certification Date	05.06.2019

Model THERMOR Alféa Excellia Duo A.I. Tri 16

Model name	THERMOR Alféa Excellia Duo A.I. Tri 16
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
Phase-out Date	16.04.2026

General data

Power supply	3x400V 50Hz
Off-peak product	No

Outdoor Air/Water

EN 16147 | Average Climate

Declared load profile	L
Efficiency η_{DHW}	88 %
COP	2.30
Heating up time	0:46 h:min
Standby power input	40.0 W
Reference hot water temperature	54.0 °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

EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	15.17 kW	12.24 kW
El input	3.70 kW	4.93 kW
COP	4.10	2.48

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	46 dB(A)	46 dB(A)
Sound power level outdoor	69 dB(A)	69 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	149 %	117 %
Prated	13.60 kW	13.00 kW
SCOP	3.80	3.00

Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	12.00 kW	11.50 kW
COP Tj = -7°C	2.40	1.80
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	7.30 kW	7.00 kW
COP Tj = +2°C	3.60	2.90
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	6.30 kW	5.80 kW
COP Tj = +7°C	5.50	4.10
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	7.40 kW	7.10 kW
COP Tj = 12°C	7.20	5.50
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	12.00 kW	11.50 kW
COP Tj = Tbiv	2.40	1.80
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	11.60 kW	10.30 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.30	1.60
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	60 °C	60 °C
Poff	14 W	14 W
PTO	88 W	32 W
PSB	17 W	17 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	2.00 kW	2.70 kW
Annual energy consumption Qhe	7408 kWh	9062 kWh

Model THERMOR Alféa Excellia A.I. Tri 16

Model name	THERMOR Alféa Excellia A.I. Tri 16
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
Phase-out Date	16.04.2026

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

EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	15.17 kW	12.24 kW
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COP	4.10	2.48

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Pdh Tj = -7°C	12.00 kW	11.50 kW
COP Tj = -7°C	2.40	1.80
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	7.30 kW	7.00 kW
COP Tj = +2°C	3.60	2.90
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	6.30 kW	5.80 kW

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COP Tj = 12�C	7.20	5.50
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Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
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Annual energy consumption Qhe	7408 kWh	9062 kWh