

Subtype Alf  a Excellia A.I. Tri 16 2024

Certificate Holder	Groupe Atlantic
Address	Rue des Fondeurs BP 64
ZIP	59660
City	Merville
Country	FR
Certification Body	RISE CERT
Subtype title	Alf��a Excellia A.I. Tri 16 2024
Registration number	012-C700258
Heat Pump Type	Outdoor Air/Water
Refrigerant	R410A
Mass of Refrigerant	2.5 kg
Certification Date	04.03.2024
Testing basis	EN 14511:2022, EN 14825:2022, EN 16147:2017, EN 12102:2022

**Model Alf  a Excellia A.I. Tri 16 2024**

Model name	Alf��a Excellia A.I. Tri 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	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	15.20 kW	12.30 kW
EI input	3.71 kW	4.96 kW
COP	4.10	2.48

**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 %	125 %
Prated	14.00 kW	13.00 kW
SCOP	3.95	3.20
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	12.40 kW	11.50 kW
COP Tj = -7°C	2.51	1.87
Cdh Tj = -7 °C	1.000	1.000
Pdh Tj = +2°C	7.50 kW	7.00 kW
COP Tj = +2°C	3.69	3.08
Cdh Tj = +2 °C	0.990	0.990
Pdh Tj = +7°C	6.30 kW	5.60 kW

COP Tj = +7°C	5.62	4.50
Cdh Tj = +7 °C	0.980	0.980
Pdh Tj = 12°C	7.40 kW	6.90 kW
COP Tj = 12°C	7.32	6.09
Cdh Tj = +12 °C	0.980	0.980
Pdh Tj = Tbiv	12.40 kW	11.50 kW
COP Tj = Tbiv	2.51	1.87
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	2.34	1.67
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	10 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	2.40 kW	2.70 kW
Annual energy consumption Qhe	7317 kWh	8395 kWh

**Model Alf  a Excellia Duo A.I. Tri 16 2024**

Model name	Alf��a Excellia Duo A.I. Tri 16 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	3x400V 50Hz
Off-peak product	n/a

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

Declared load profile	L
Efficiency $\eta_{DHW}$	100 %
COP	2.50
Heating up time	0:50 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	15.20 kW	12.30 kW
El input	3.71 kW	4.96 kW
COP	4.10	2.48

**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 %	125 %
Prated	14.00 kW	13.00 kW

SCOP	3.95	3.20
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	12.40 kW	11.50 kW
COP Tj = -7°C	2.51	1.87
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Pdh Tj = +2°C	7.50 kW	7.00 kW
COP Tj = +2°C	3.69	3.08
Cdh Tj = +2 °C	0.990	0.990
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COP Tj = +7°C	5.62	4.50
Cdh Tj = +7 °C	0.980	0.980
Pdh Tj = 12°C	7.40 kW	6.90 kW
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WTOL	60 °C	60 °C
Poff	10 W	10 W
PTO	24 W	24 W
PSB	14 W	10 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	2.40 kW	2.70 kW
Annual energy consumption Qhe	7317 kWh	8395 kWh