

Subtype Alf  a Excellia A.I. 14 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. 14 2024
Registration number	012-C700255
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. 14 2024

Model name	Alf��a Excellia A.I. 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	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
EI 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
η_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

Model Alf  a Excellia Duo A.I. 14 2024

Model name	Alf��a Excellia Duo A.I. 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	1x230V 50Hz
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	1:10 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	13.50 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
η_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
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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