Subtype Alféa Excellia S 12 Tri

Certificate Holder	Groupe Atlantic
Address	Rue des Fondeurs BP 64
ZIP	59660
City	Merville
Country	FR
Certification Body	RISE CERT
Subtype title	Alféa Excellia S 12 Tri
Registration number	012-C700300
Heat Pump Type	Outdoor Air/Water
Refrigerant	R32
Mass of Refrigerant	1.4 kg
Certification Date	20.05.2024
Testing basis	EN 14511:2022, EN 14825:2022, EN 16147:2017+A1:2022, EN 12102:2022
Testing laboratory	ACTA INDUSTRIE - Laboratoire Acoustique et Climatique

Model Alféa Excellia S 12 Tri	
Model name	Alféa Excellia S 12 Tri
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	12.55 kW	9.16 kW
El input	2.69 kW	3.06 kW
COP	4.67	2.99

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	36 dB(A)	36 dB(A)
Sound power level outdoor	56 dB(A)	56 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
ηs	183 %	135 %
Prated	10.10 kW	9.80 kW
SCOP	4.66	3.44
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	8.90 kW	8.70 kW
COP Tj = -7°C	3.09	2.29
Cdh Tj = -7 °C	0.990	1.000
Pdh Tj = +2°C	5.40 kW	5.30 kW
COP Tj = +2°C	4.62	3.38
Cdh Tj = +2 °C	0.980	0.990
Pdh Tj = +7°C	4.40 kW	4.10 kW

COP Tj = +7°C	6.06	4.37
Cdh Tj = +7 °C	0.970	0.980
Pdh Tj = 12°C	5.00 kW	4.90 kW
COP Tj = 12°C	7.57	5.87
Cdh Tj = +12 °C	0.970	0.980
Pdh Tj = Tbiv	8.90 kW	8.70 kW
COP Tj = Tbiv	3.09	2.29
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.50 kW	8.10 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.86	2.01
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.990	1.000
WTOL	60 °C	60 °C
Poff	14 W	14 W
PTO	21 W	18 W
PSB	14 W	14 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.60 kW	1.70 kW
Annual energy consumption Qhe	4476 kWh	5879 kWh

Model Alféa Excellia S Duo 12 Tri	
Model name	Alféa Excellia S Duo 12 Tri
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 ηDHW	116 %
COP	2.90
Heating up time	1:20 h:min
Standby power input	34.0 W
Reference hot water temperature	55.0 °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
Starting and operating test	passed

EN 14511-2 | Heating		
	Low temperature	Medium temperature
Heat output	12.55 kW	9.16 kW
El input	2.69 kW	3.06 kW
COP	4.67	2.99

EN 12102-1 | Average Climate		
	Low temperature	Medium temperature
Sound power level indoor	36 dB(A)	36 dB(A)
Sound power level outdoor	56 dB(A)	56 dB(A)

EN 14825 | Average Climate		
	Low temperature	Medium temperature
ηs	183 %	135 %
Prated	10.10 kW	9.80 kW

SCOP	4.66	3.44
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	8.90 kW	8.70 kW
COP Tj = -7°C	3.09	2.29
Cdh Tj = -7 °C	0.990	1.000
Pdh Tj = +2°C	5.40 kW	5.30 kW
COP Tj = +2°C	4.62	3.38
Cdh Tj = +2 °C	0.980	0.990
Pdh Tj = +7°C	4.40 kW	4.10 kW
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Cdh Tj = +7 °C	0.970	0.980
Pdh Tj = 12°C	5.00 kW	4.90 kW
COP Tj = 12°C	7.57	5.87
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COP Tj = Tbiv	3.09	2.29
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COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.86	2.01
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.990	1.000
WTOL	60 °C	60 °C
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PSB	14 W	14 W
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Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.60 kW	1.70 kW
Annual energy consumption Qhe	4476 kWh	5879 kWh