Subtype Alféa Excellia HP A.I. Tri 17

Certificate Holder	Groupe Atlantic
Address	Rue des Fondeurs BP 64
ZIP	59660
City	Merville
Country	FR
Certification Body	RISE CERT
Subtype title	Alféa Excellia HP A.I. Tri 17
Registration number	012-SC0307-18
Heat Pump Type	Outdoor Air/Water
Refrigerant	R410A
Mass of Refrigerant	3.8 kg
Certification Date	09.12.2022
Testing basis	EN 14511:2013, EN 16147:2017, EN 14825:2016, EN 12102:2013
Testing laboratory	RISE Research Institutes of Sweden

Model Alféa Excellia HP A.I. Tri 17	
Model name	Alféa Excellia HP A.I. Tri 17
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

EN 14511-2 | Heating	Low temperature	Medium temperature
Heat output	17.11 kW	15.53 kW
El input	4.08 kW	5.52 kW
COP	4.19	2.81

EN 12102-1 | Average Climate	Low temperature	Medium temperature
Sound power level indoor	45 dB(A)	45 dB(A)
Sound power level outdoor	67 dB(A)	67 dB(A)

EN 14825 | Average Climate	Low temperature	Medium temperature
ηs	161 %	130 %
Prated	18.00 kW	16.50 kW
SCOP	4.11	3.33
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	16.00 kW	15.00 kW
COP Tj = -7°C	2.82	2.10
Cdh Tj = -7 °C	0.980	0.990
Pdh Tj = +2°C	9.70 kW	9.00 kW
COP Tj = +2°C	4.13	3.32
Cdh Tj = +2 °C	0.960	0.980
Pdh Tj = +7°C	6.80 kW	6.30 kW
COP Tj = +7°C	5.01	4.23

Cdh Tj = +7 °C	0.930	0.970
Pdh Tj = 12°C	8.00 kW	7.70 kW
COP Tj = 12°C	6.64	5.95
Cdh Tj = +12 °C	0.920	0.960
Pdh Tj = Tbiv	16.00 kW	15.00 kW
COP Tj = Tbiv	2.82	2.10
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	14.90 kW	12.40 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.61	1.76
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.980	0.990
WTOL	60 °C	60 °C
Poff	16 W	16 W
PTO	97 W	49 W
PSB	19 W	19 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	3.10 kW	4.10 kW
Annual energy consumption Qhe	9059 kWh	10232 kWh

Model Alféa Excellia HP Duo A.I. Tri 17	
Model name	Alféa Excellia HP Duo A.I. Tri 17
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	No

Outdoor Air/Water

EN 16147 | Average Climate

Declared load profile	L
Efficiency ηDHW	109 %
COP	2.56
Heating up time	00:54 h:min
Standby power input	48.0 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

EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	17.11 kW	15.53 kW
El input	4.08 kW	5.52 kW
COP	4.19	2.81

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	45 dB(A)	45 dB(A)
Sound power level outdoor	67 dB(A)	67 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
ηs	161 %	130 %
Prated	18.00 kW	16.50 kW
SCOP	4.11	3.33

Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	16.00 kW	15.00 kW
COP Tj = -7°C	2.82	2.10
Cdh Tj = -7 °C	0.980	0.990
Pdh Tj = +2°C	9.70 kW	9.00 kW
COP Tj = +2°C	4.13	3.32
Cdh Tj = +2 °C	0.960	0.980
Pdh Tj = +7°C	6.80 kW	6.30 kW
COP Tj = +7°C	5.01	4.23
Cdh Tj = +7 °C	0.930	0.970
Pdh Tj = 12°C	8.00 kW	7.70 kW
COP Tj = 12°C	6.64	5.95
Cdh Tj = +12 °C	0.920	0.960
Pdh Tj = Tbiv	16.00 kW	15.00 kW
COP Tj = Tbiv	2.82	2.10
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	14.90 kW	12.40 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.61	1.76
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.980	0.990
WTOL	60 °C	60 °C
Poff	16 W	16 W
PTO	97 W	49 W
PSB	19 W	19 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	3.10 kW	4.10 kW
Annual energy consumption Qhe	9059 kWh	10232 kWh