

Subtype Alféa Extensa +16

Certificate Holder	Groupe Atlantic
Address	Rue des Fondateurs BP 64
ZIP	59660
City	Merville
Country	FR
Certification Body	RISE CERT
Subtype title	Alféa Extensa +16
Registration number	012-012
Heat Pump Type	Outdoor Air/Water
Refrigerant	R410A
Mass of Refrigerant	2.5 kg
Certification Date	15.12.2017
Testing laboratory	ACTA INDUSTRIE - Laboratoire Acoustique et Climatique

Model Alféa Extensa +16

Model name	Alféa Extensa +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

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

EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	16.06 kW	10.03 kW
El input	4.37 kW	4.01 kW
COP	3.68	2.50

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	46 dB(A)	46 dB(A)
Sound power level outdoor	70 dB(A)	70 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	149 %	113 %
Prated	13.00 kW	11.40 kW
SCOP	3.77	2.90
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	11.10 kW	10.00 kW
COP Tj = -7°C	2.50	1.90
Cdh Tj = -7 °C		
Pdh Tj = +2°C	6.70 kW	6.10 kW
COP Tj = +2°C	3.60	2.80
Cdh Tj = +2 °C		
Pdh Tj = +7°C	6.20 kW	5.90 kW
COP Tj = +7°C	5.40	3.90

Cdh Tj = +7 °C		
Pdh Tj = 12°C	7.30 kW	7.10 kW
COP Tj = 12°C	6.90	5.10
Cdh Tj = +12 °C		
Pdh Tj = Tbiv	11.10 kW	10.00 kW
COP Tj = Tbiv	2.50	1.90
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.10 kW	9.30 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.40	1.70
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	55 °C	55 °C
Poff	8 W	8 W
PTO	72 W	25 W
PSB	12 W	12 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	2.90 kW	2.10 kW
Annual energy consumption Qhe	6824 kWh	8041 kWh

Model Alféa Extensa A.I. 16

Model name	Alféa Extensa A.I. 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

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

EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	16.06 kW	10.03 kW
El input	4.37 kW	4.01 kW
COP	3.68	2.50

EN 12102-1 | Average Climate

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COP Tj = +2°C	3.60	2.80
Cdh Tj = +2 °C		
Pdh Tj = +7°C	6.20 kW	5.90 kW
COP Tj = +7°C	5.40	3.90

Cdh Tj = +7 °C		
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COP Tj = 12°C	6.90	5.10
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