

## Subtype Alféa Extensa +16

Certificate Holder	Groupe Atlantic
Address	44 boulevard des Etats-Unis
ZIP	85000
City	La Roche Sur Yon
Country	FR
Certification Body	RISE CERT
Subtype title	Alféa Extensa +16
Registration number	
Heat Pump Type	Outdoor Air/Water
Refrigerant	R410A
Mass of Refrigerant	2.5 kg

## 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 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
$\eta_s$	149 %	113 %
Prated	13.00 kW	11.00 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
Pdh Tj = +2°C	6.70 kW	6.10 kW
COP Tj = +2°C	3.60	2.80
Pdh Tj = +7°C	6.20 kW	5.90 kW
COP Tj = +7°C	5.40	3.90
Pdh Tj = 12°C	7.30 kW	7.10 kW
COP Tj = 12°C	6.90	5.10
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	10.80 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	0.90	0.90
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	1.70 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 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
$\eta_s$	149 %	113 %
Prated	13.00 kW	11.00 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
Pdh Tj = +2°C	6.70 kW	6.10 kW
COP Tj = +2°C	3.60	2.80
Pdh Tj = +7°C	6.20 kW	5.90 kW
COP Tj = +7°C	5.40	3.90
Pdh Tj = 12°C	7.30 kW	7.10 kW
COP Tj = 12°C	6.90	5.10
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	10.80 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	0.90	0.90
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	1.70 kW	2.10 kW
Annual energy consumption Qhe	6824 kWh	8041 kWh