

## Subtype Alféa Hybrid Duo Gaz 11

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 Hybrid Duo Gaz 11
Registration number	012-018
Heat Pump Type	Outdoor Air/Water
Refrigerant	R410A
Mass of Refrigerant	2.5 kg
Certification Date	20.12.2016
Testing basis	EN 14511:2013, EN 14825:2013, EN 12102:2013

## Model Alféa Hybrid Duo Gaz 11

Model name	Alféa Hybrid Duo Gaz 11
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	69 dB(A)	69 dB(A)

### EN 14825 | Average Climate

	Low temperature	Medium temperature
$\eta_s$	151 %	112 %
Prated	11.30 kW	9.30 kW
SCOP	3.85	2.87
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	10.00 kW	8.20 kW
COP Tj = -7°C	2.60	1.90
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	6.10 kW	5.00 kW
COP Tj = +2°C	3.70	2.80
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	6.20 kW	5.90 kW
COP Tj = +7°C	5.30	3.80
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	7.40 kW	7.00 kW
COP Tj = 12°C	6.90	4.80
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	10.00 kW	8.20 kW
COP Tj = Tbiv	2.60	1.90

Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.00 kW	8.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.20	1.70
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	80 �C	80 �C
Poff	8 W	8 W
PTO	45 W	22 W
PSB	12 W	12 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Gas	Gas
Supplementary Heater: PSUP	1.30 kW	1.30 kW
Annual energy consumption Qhe	6062 kWh	6623 kWh

## Model Alféa Condensol Hybrid Duo Gaz 11

Model name	Alféa Condensol Hybrid Duo Gaz 11
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	69 dB(A)	69 dB(A)

### EN 14825 | Average Climate

	Low temperature	Medium temperature
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COP Tj = -7°C	2.60	1.90
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Pdh Tj = +2°C	6.10 kW	5.00 kW
COP Tj = +2°C	3.70	2.80
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	6.20 kW	5.90 kW
COP Tj = +7°C	5.30	3.80
Cdh Tj = +7 °C		0.900
Pdh Tj = 12°C	7.40 kW	7.00 kW
COP Tj = 12°C	6.90	4.80
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	10.00 kW	8.20 kW
COP Tj = Tbiv	2.60	1.90

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Supplementary Heater: PSUP	1.30 kW	1.30 kW
Annual energy consumption Qhe	6062 kWh	6623 kWh