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Summary of	Alféa Hybrid Duo Fioul/Oil A.I. 8	Reg. No.	012-SC0257-19
Certificate Holder			
Name	Groupe Atlantic		
Address	44 boulevard des Etats-Unis	Zip	85000
City	La Roche Sur Yon	Country	France
Certification Body	RISE CERT		
Subtype title	Alféa Hybrid Duo Fioul/Oil A.I. 8		
Heat Pump Type	Outdoor Air/Water		
Refrigerant	R410A		
Mass of Refrigerant	1.4 kg		
Certification Date	27.06.2019		

# Model: Alféa Hybrid Duo Fioul/Oil A.I. 8

## Configure model

Model name	Alféa Hybrid Duo Fioul/Oil A.I. 8
Application	Heating + DHW + low temp
Units	Indoor + Outdoor
Climate Zone	n/a
Reversibility	No
Cooling mode application (optional)	n/a

## General Data

Power supply	1x230V 50Hz
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## Heating

### EN 14511-2

	Low temperature	Medium temperature
Heat output	7.50 kW	5.00 kW
El input	1.84 kW	1.94 kW
COP	4.08	2.58

### EN 14511-4

Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed

## Average Climate

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### EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	48 dB(A)	48 dB(A)
Sound power level outdoor	69 dB(A)	69 dB(A)

### EN 14825

	Low temperature	Medium temperature
$\eta_s$	156 %	118 %
Prated	7.00 kW	6.00 kW
SCOP	3.97	3.02
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.80 kW	5.30 kW
COP Tj = -7°C	2.40	1.80
Pdh Tj = +2°C	3.50 kW	3.10 kW
COP Tj = +2°C	3.80	2.90
Pdh Tj = +7°C	2.30 kW	2.00 kW
COP Tj = +7°C	5.70	4.10
Pdh Tj = 12°C	2.40 kW	2.20 kW
COP Tj = 12°C	8.20	5.80
Pdh Tj = Tbiv	5.80 kW	5.30 kW

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COP $T_j = T_{biv}$	2.40	1.80
$P_{dh} T_j = TOL$ or $P_{dh} T_j = T_{designh}$ if $TOL < T_{designh}$	5.60 kW	4.90 kW
COP $T_j = TOL$ or COP $T_j = T_{designh}$ if $TOL < T_{designh}$	2.00	1.50
$C_{dh} T_j = TOL$ or $P_{dh} T_j = T_{designh}$ if $TOL < T_{designh}$	0.90	0.90
WTOL	55 °C	55 °C
P <sub>off</sub>	6 W	6 W
PTO	30 W	16 W
PSB	9 W	9 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.90 kW	1.20 kW
Annual energy consumption $Q_{he}$	3375 kWh	3886 kWh

## Domestic Hot Water (DHW)

### Average Climate

<b>EN 16147</b>	
Declared load profile	L
Efficiency $\eta_{DHW}$	120 %
COP	3.00
Heating up time	01:45 h:min
Standby power input	32.0 W
Reference hot water temperature	54.0 °C
Mixed water at 40°C	249 l