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Summary of	Alféa Hybrid Duo Fioul/Oil A.I. mono phase	Reg. No.	012-SC0258-19	
Certificate Holder				
Name	Groupe Atlantic			
Address	44 boulevard des Etats-Unis Zip 85000		85000	
City	La Roche Sur Yon Country France		France	
Certification Body	RISE CERT			
Subtype title	Alféa Hybrid Duo Fioul/Oil A.I. mono phase			
Heat Pump Type	Outdoor Air/Water			
Refrigerant	R410A			
Mass of Refrigerant	2.5 kg			
Certification Date	27.06.2019			



Model: Alféa Hybrid Duo Fioul/Oil A.I. 11 - 23kW

Configure model		
Model name	Alféa Hybrid Duo Fioul/Oil A.I. 11 - 23kW	
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	

Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	10.80 kW	7.59 kW
El input	2.54 kW	3.07 kW
СОР	4.25	2.47

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



EN 14825

	Low temperature	Medium temperature
η_{s}	151 %	112 %
Prated	11.00 kW	9.00 kW
SCOP	3.85	2.87
Гbіv	-7 °C	-7 °C
ΓOL	-10 °C	-10 °C
Pdh Tj = -7°C	10.00 kW	8.20 kW
COP Tj = -7°C	2.60	1.90
Pdh Tj = +2°C	6.10 kW	5.00 kW
COP Tj = +2°C	3.70	2.80
Pdh Tj = +7°C	6.20 kW	5.90 kW
$COP Tj = +7^{\circ}C$	5.30	3.80
Pdh Tj = 12°C	7.40 kW	7.00 kW
COP Tj = 12°C	6.90	4.80
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	0.90	0.90
WTOL	60 °C	60 °C

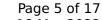




Poff	8 W	8 W
РТО	45 W	22 W
PSB	12 W	12 W
PCK	o w	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.30 kW	1.30 kW
Annual energy consumption Qhe	6062 kWh	6623 kWh

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)	

Domestic Hot Water (DHW)





EN 16147		
Standby power input	40.0 W	
Reference hot water temperature	54.0 °C	
Declared load profile	L	
Efficiency ηDHW	88 %	
СОР	2.25	
Heating up time	00:55 h:min	
Mixed water at 40°C	250 l	

Model: Alféa Hybrid Duo Fioul/Oil A.I. 11 - 29kW

Configure model		
Model name	Alféa Hybrid Duo Fioul/Oil A.I. 11 - 29kW	
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	

Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	10.80 kW	7.59 kW
El input	2.54 kW	3.07 kW
СОР	4.25	2.47

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





EN 14825		
Low temperature	Medium temperature	
151 %	112 %	
11.00 kW	9.00 kW	
3.85	2.87	
-7 °C	-7 °C	
-10 °C	-10 °C	
10.00 kW	8.20 kW	
2.60	1.90	
6.10 kW	5.00 kW	
3.70	2.80	
6.20 kW	5.90 kW	
5.30	3.80	
7.40 kW	7.00 kW	
6.90	4.80	
10.00 kW	8.20 kW	
2.60	1.90	
10.00 kW	8.00 kW	
2.20	1.70	
0.90	0.90	
60 °C	60 °C	
	Low temperature 151 % 11.00 kW 3.85 -7 °C -10 °C 10.00 kW 2.60 6.10 kW 3.70 6.20 kW 5.30 7.40 kW 6.90 10.00 kW 2.60 10.00 kW	





Poff	8 W	8 W
PTO	45 W	22 W
PSB	12 W	12 W
PCK	o w	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.30 kW	1.30 kW
Annual energy consumption Qhe	6062 kWh	6623 kWh

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)

Domestic Hot Water (DHW)





EN 16147		
Standby power input	40.0 W	
Reference hot water temperature	54.0 °C	
Declared load profile	L	
Efficiency ηDHW	88 %	
СОР	2.25	
Heating up time	00:55 h:min	
Mixed water at 40°C	250 l	



Model: Alféa Hybrid Duo Fioul/Oil A.I. 14 - 23 kW

Configure model		
Model name	Alféa Hybrid Duo Fioul/Oil A.I. 14 - 23 kW	
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	

Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	13.50 kW	9.48 kW
El input	3.23 kW	3.95 kW
СОР	4.18	2.40

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
η_{s}	148 %	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

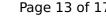


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COP Tj = Tbiv	2.50	1.90
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.80 kW	9.30 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.40	1.70
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	8 W	8 W
РТО	72 W	25 W
PSB	12 W	12 W
PCK	o w	o 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

Domestic Hot Water (DHW)





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EN 16147		
Declared load profile	L	
Efficiency ηDHW	88 %	
СОР	2.25	
Heating up time	00:55 h:min	
Mixed water at 40°C	250 l	
Standby power input	40.0 W	
Reference hot water temperature	54.0 °C	

Model: Alféa Hybrid Duo Fioul/Oil A.I. 14 - 29 kW

Configure model		
Model name	Alféa Hybrid Duo Fioul/Oil A.I. 14 - 29 kW	
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	

Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	13.50 kW	9.48 kW
El input	3.23 kW	3.95 kW
СОР	4.18	2.40

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



 $$\operatorname{\textit{Page}}\ 15$$ of 17 This information was generated by the HP KEYMARK database on 18 Mar 2022

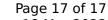
EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	48 dB(A)	48 dB(A)
Sound power level outdoor	69 dB(A)	69 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_{s}	148 %	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



This information was generated by the Fit KETMANK database on 10 Mar 202		
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	60 °C	60 °C
Poff	8 W	8 W
РТО	72 W	25 W
PSB	12 W	12 W
PCK	o w	o 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

Domestic Hot Water (DHW)





EN 16147		
Declared load profile	L	
Efficiency ηDHW	88 %	
СОР	2.25	
Heating up time	00:55 h:min	
Mixed water at 40°C	250 l	
Standby power input	40.0 W	
Reference hot water temperature	54.0 °C	