

Login

Summary of	Alféa Hybrid Duo Fioul/Oil A.I. three phases	Reg. No.	012-SC0259-19		
Certificate Holder					
Name Groupe Atlantic					
Address	44 boulevard des Etats-Unis	4 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. three phases				
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. Tri 11 - 23kW

Configure model		
Model name Alféa Hybrid Duo Fioul/Oil A.I. Tri 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 3x400V 50Hz	

Heating

EN 14511-2			
Low temperature Medium temperature			
Heat output	10.80 kW	9.29 kW	
El input	2.51 kW	3.52 kW	
СОР	4.30	2.64	

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

EN 14825		
	Low temperature	Medium temperature
η_{S}	154 %	112 %
Prated	11.00 kW	9.00 kW
SCOP	3.92	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	2.70	1.90
Pdh Tj = $+2$ °C	6.10 kW	5.00 kW
$COPTj = +2^{\circ}C$	3.70	2.70
Pdh Tj = $+7^{\circ}$ C	6.20 kW	5.90 kW
$COP Tj = +7^{\circ}C$	5.50	3.90
Pdh Tj = 12°C	7.40 kW	7.00 kW
COP Tj = 12°C	7.10	5.20
Pdh Tj = Tbiv	10.00 kW	8.20 kW
COP Tj = Tbiv	2.70	1.90
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.90 kW	8.10 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.30	1.60
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.98
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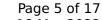




WTOL	60 °C	60 °C
Poff	14 W	14 W
РТО	44 W	32 W
PSB	17 W	17 W
PCK	o w	o w
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.40 kW	1.20 kW
Annual energy consumption Qhe	5930 kWh	6669 kWh

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. Tri 11 - 29kW

Configure model		
Model name Alféa Hybrid Duo Fioul/Oil A.I. Tri 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 3x400V 50Hz		

Heating

EN 14511-2			
Low temperature Medium temperature			
Heat output	10.80 kW	9.29 kW	
El input	2.51 kW	3.52 kW	
СОР	4.30	2.64	

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	
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Prated	11.00 kW	9.00 kW	
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Tbiv	-7 °C	-7 °C	
TOL	-10 °C	-10 °C	
Pdh Tj = -7° C	10.00 kW	8.20 kW	
COP Tj = -7° C	2.70	1.90	
Pdh Tj = $+2$ °C	6.10 kW	5.00 kW	
COP Tj = +2°C	3.70	2.70	
Pdh Tj = $+7^{\circ}$ C	6.20 kW	5.90 kW	
$COPTj = +7^{\circ}C$	5.50	3.90	
Pdh Tj = 12°C	7.40 kW	7.00 kW	
COP Tj = 12°C	7.10	5.20	
Pdh Tj = Tbiv	10.00 kW	8.20 kW	
COP Tj = Tbiv	2.70	1.90	
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.90 kW	8.10 kW	
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.30	1.60	
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.98	





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Poff	14 W	14 W
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Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.40 kW	1.20 kW
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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. Tri 14 - 23 kw

Configure model		
Model name	Alféa Hybrid Duo Fioul/Oil A.I. Tri 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	3x400V 50Hz	

Heating

EN 14511-2			
Low temperature Medium temperature			
Heat output	13.00 kW	10.60 kW	
El input	3.11 kW	4.40 kW	
СОР	4.18	2.41	

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 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	
150 %	117 %	
13.00 kW	11.00 kW	
3.82	3.00	
-7 °C	-7 °C	
-10 °C	-10 °C	
11.10 kW	10.00 kW	
2.50	2.00	
6.70 kW	6.10 kW	
3.70	2.90	
6.20 kW	5.90 kW	
5.40	4.10	
7.30 kW	7.10 kW	
7.00	5.40	
	Low temperature 150 % 13.00 kW 3.82 -7 °C -10 °C 11.10 kW 2.50 6.70 kW 3.70 6.20 kW 5.40 7.30 kW	

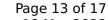


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Pdh Tj = Tbiv	11.10 kW	10.00 kW
COP Tj = Tbiv	2.50	2.00
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.80 kW	9.30 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.40	1.60
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	14 W	14 W
РТО	66 W	43 W
PSB	17 W	17 W
PCK	o w	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.70 kW	2.00 kW
Annual energy consumption Qhe	6738 kWh	7803 kWh

Domestic Hot Water (DHW)





EN 16147		
Declared load profile	L	
Efficiency ηDHW	88 %	
СОР	2.25	
Heating up time	00:55 h:min	
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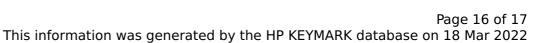
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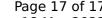
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Pdh Tj = +7°C	6.20 kW	5.90 kW
$COP Tj = +7^{\circ}C$	5.40	4.10
Pdh Tj = 12°C	7.30 kW	7.10 kW
COP Tj = 12°C	7.00	5.40





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РТО	66 W	43 W
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