

Subtype Alféa Hybrid Duo Fioul/Oil A.I. mono phase

Certificate Holder	Groupe Atlantic
Address	Rue des Fondateurs BP 64
ZIP	59660
City	Merville
Country	FR
Certification Body	RISE CERT
Subtype title	Alféa Hybrid Duo Fioul/Oil A.I. mono phase
Registration number	012-SC0258-19
Heat Pump Type	Outdoor Air/Water
Refrigerant	R410A
Mass of Refrigerant	2.5 kg
Certification Date	27.06.2019
Testing laboratory	RISE Research Institutes of Sweden

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

Model name	Alféa Hybrid Duo Fioul/Oil A.I. 11 - 23kW
Application	Heating + DHW + low 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	No

Outdoor Air/Water

EN 16147 | Average Climate

Declared load profile	L
Efficiency η_{DHW}	88 %
COP	2.25
Heating up time	00:55 h:min
Standby power input	40.0 W
Reference hot water temperature	54.0 °C
Mixed water at 40°C	250 l

EN 14511-4 | Heating

Shutting off the heat transfer medium flow passed

Complete power supply failure	passed
Defrost test	passed

EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	10.80 kW	7.59 kW
El input	2.54 kW	3.07 kW
COP	4.25	2.47

EN 12102-1 | Average Climate

	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 | Average Climate

	Low temperature	Medium temperature
η_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	60 �C	60 �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	Electricity	Electricity
Supplementary Heater: PSUP	1.30 kW	1.30 kW
Annual energy consumption Qhe	6062 kWh	6623 kWh

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

Model name	Alféa Hybrid Duo Fioul/Oil A.I. 11 - 29kW
Application	Heating + DHW + low 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	No

Outdoor Air/Water

EN 16147 | Average Climate

Declared load profile	L
Efficiency η_{DHW}	88 %
COP	2.25
Heating up time	00:55 h:min
Standby power input	40.0 W
Reference hot water temperature	54.0 °C
Mixed water at 40°C	250 l

EN 14511-4 | Heating

Shutting off the heat transfer medium flow passed

Complete power supply failure	passed
Defrost test	passed

EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	10.80 kW	7.59 kW
El input	2.54 kW	3.07 kW
COP	4.25	2.47

EN 12102-1 | Average Climate

	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 | Average Climate

	Low temperature	Medium temperature
η_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	60 �C	60 �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	Electricity	Electricity
Supplementary Heater: PSUP	1.30 kW	1.30 kW
Annual energy consumption Qhe	6062 kWh	6623 kWh

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

Model name	Alféa Hybrid Duo Fioul/Oil A.I. 14 - 23 kW
Application	Heating + DHW + low 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	No

Outdoor Air/Water

EN 16147 | Average Climate

Declared load profile	L
Efficiency η_{DHW}	88 %
COP	2.25
Heating up time	00:55 h:min
Standby power input	40.0 W
Reference hot water temperature	54.0 °C
Mixed water at 40°C	250 l

EN 14511-4 | Heating

Shutting off the heat transfer medium flow passed

Complete power supply failure	passed
Defrost test	passed

EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	13.50 kW	9.48 kW
El input	3.23 kW	3.95 kW
COP	4.18	2.40

EN 12102-1 | Average Climate

	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 | Average Climate

	Low temperature	Medium temperature
η_s	148 %	113 %
Prated	12.50 kW	11.30 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
Cdh Tj = -7 �C	0.900	0.900
Pdh Tj = +2�C	6.70 kW	6.10 kW
COP Tj = +2�C	3.60	2.80
Cdh Tj = +2 �C	0.900	0.900
Pdh Tj = +7�C	6.20 kW	5.90 kW
COP Tj = +7�C	5.40	3.90
Cdh Tj = +7 �C	0.900	0.900
Pdh Tj = 12�C	7.30 kW	7.10 kW
COP Tj = 12�C	6.90	5.10
Cdh Tj = +12 �C	0.900	0.900
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	0.900	0.900
WTOL	60 �C	60 �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	2.00 kW
Annual energy consumption Qhe	6824 kWh	8041 kWh

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

Model name	Alféa Hybrid Duo Fioul/Oil A.I. 14 - 29 kW
Application	Heating + DHW + low 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	No

Outdoor Air/Water

EN 16147 | Average Climate

Declared load profile	L
Efficiency η_{DHW}	88 %
COP	2.25
Heating up time	00:55 h:min
Standby power input	40.0 W
Reference hot water temperature	54.0 °C
Mixed water at 40°C	250 l

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EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	13.50 kW	9.48 kW
El input	3.23 kW	3.95 kW
COP	4.18	2.40

EN 12102-1 | Average Climate

	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 | Average Climate

	Low temperature	Medium temperature
η_s	148 %	113 %
Prated	12.50 kW	11.30 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
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	6.70 kW	6.10 kW
COP Tj = +2°C	3.60	2.80
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	6.20 kW	5.90 kW
COP Tj = +7°C	5.40	3.90
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	7.30 kW	7.10 kW
COP Tj = 12°C	6.90	5.10
Cdh Tj = +12 °C	0.900	0.900
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	0.900	0.900
WTOL	60 °C	60 °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	2.00 kW
Annual energy consumption Qhe	6824 kWh	8041 kWh