

Subtype ALYA 4-6 FS-A

Certificate Holder	BAXI S.p.A.
Address	Via Trozzetti, 20
ZIP	
City	Bassano del Grappa (VI)
Country	IT
Certification Body	ECC Eurovent Certita Certification
Subtype title	ALYA 4-6 FS-A
Registration number	24.03.030
Heat Pump Type	Outdoor Air/Water
Refrigerant	R32
Mass of Refrigerant	1.5 kg
Certification Date	25.03.2024
Testing basis	EN 14511: 2018 / EN 14825: 2018 / EN 16147: 2017 / EN 12102-1: 2017
Testing laboratory	BDR Thermea France

Model ALYA 4 M H FS-A

Model name	ALYA 4 M H FS-A
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
Reversibility	Yes
Cooling mode application (optional)	+7°C/12°C, +18°C/+23°C
Any additional heat sources	n/a

General data

Power supply	n/a
Off-peak product	n/a

Outdoor Air/Water**EN 16147 | Average Climate**

Declared load profile	L
Efficiency ηDHW	131 %
COP	3.14
Heating up time	1:35 h:min
Standby power input	28.5 W
Reference hot water temperature	53.0 °C
Mixed water at 40°C	240 l

EN 14511-4 | Heating

Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	4.25 kW	4.40 kW
El input	0.82 kW	1.49 kW
COP	5.20	2.95

EN 14511-2 | Cooling

	+7°C/+12°C	+18°C/+23°C
El input	4.76 kW	4.64 kW
Cooling capacity	1.32	0.84
EER	3.60	5.50

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
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Sound power level indoor	33 dB(A)	33 dB(A)
Sound power level outdoor	52 dB(A)	52 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	193 %	132 %
P _{rated}	5.52 kW	4.40 kW
SCOP	4.90	3.36
T _{biv}	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P _{dh Tj = -7°C}	4.88 kW	3.89 kW
COP T _j = -7°C	3.19	2.17
C _{dh Tj = -7 °C}	0.900	0.900
P _{dh Tj = +2°C}	3.06 kW	2.38 kW
COP T _j = +2°C	4.78	3.30
C _{dh Tj = +2 °C}	0.900	0.900
P _{dh Tj = +7°C}	1.94 kW	1.56 kW
COP T _j = +7°C	6.40	4.30
C _{dh Tj = +7 °C}	0.900	0.900
P _{dh Tj = 12°C}	1.48 kW	1.32 kW
COP T _j = 12°C	8.05	5.66
C _{dh Tj = +12 °C}	0.900	0.900
P _{dh Tj = T_{biv}}	4.88 kW	3.89 kW
COP T _j = T _{biv}	3.19	2.17
P _{dh Tj = TOL or P_{dh Tj = T_{designh}} if TOL < T_{designh}}	4.42 kW	3.42 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.86	1.91
C _{dh Tj = TOL or P_{dh Tj = T_{designh}} if TOL < T_{designh}}	0.900	0.900
WTOL	65 °C	65 °C
P _{off}	14 W	14 W
PTO	24 W	24 W
PSB	14 W	14 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.11 kW	0.98 kW
Annual energy consumption Q _{he}	2326 kWh	2702 kWh

EN 14825 | Cooling

	+7°C/+12°C	+18°C/+23°C
P _{designc}	4.76 kW	4.64 kW
SEER	4.44	8.25
P _{dc Tj = 35°C}	4.76 kW	4.64 kW
EER T _j = 35°C	3.60	5.50
C _{dc Tj = 35 °C}	0.900	0.900

Pdc Tj = 30°C	3.44 kW	3.38 kW
EER Tj = 30°C	4.55	7.30
Cdc Tj = 30 °C	0.900	0.900
Pdc Tj = 25°C	2.19 kW	2.09 kW
EER Tj = 25°C	5.12	8.95
Cdc Tj = 25 °C	0.900	0.900
Pdc Tj = 20°C	0.95 kW	1.16 kW
EER Tj = 20°C	4.29	13.20
Cdc Tj = 20 °C	0.900	0.900
Poff	14 W	14 W
PTO	10 W	10 W
PSB	14 W	14 W
PCK	0 W	0 W
Annual energy consumption Qce	643 kWh	337 kWh

Model ALYA 4M E FS-A

Model name	ALYA 4M E FS-A
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
Reversibility	Yes
Cooling mode application (optional)	+7°C/12°C, +18°C/+23°C
Any additional heat sources	n/a

General data

Power supply	1x230V 50Hz
Off-peak product	n/a

Outdoor Air/Water**EN 16147 | Average Climate**

Declared load profile	L
Efficiency ηDHW	131 %
COP	3.14
Heating up time	1:35 h:min
Standby power input	28.5 W
Reference hot water temperature	53.0 °C
Mixed water at 40°C	240 l

EN 14511-4 | Heating

Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	4.25 kW	4.40 kW
El input	0.82 kW	1.49 kW
COP	5.20	2.95

EN 14511-2 | Cooling

	+7°C/+12°C	+18°C/+23°C
El input	4.76 kW	4.64 kW
Cooling capacity	1.32	0.84
EER	3.60	5.50

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
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Sound power level indoor	33 dB(A)	33 dB(A)
Sound power level outdoor	52 dB(A)	52 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	193 %	132 %
P _{rated}	5.52 kW	4.40 kW
SCOP	4.90	3.36
T _{biv}	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P _{dh Tj = -7°C}	4.88 kW	3.89 kW
COP T _j = -7°C	3.19	2.17
C _{dh Tj = -7 °C}	0.900	0.900
P _{dh Tj = +2°C}	3.06 kW	2.38 kW
COP T _j = +2°C	4.78	3.30
C _{dh Tj = +2 °C}	0.900	0.900
P _{dh Tj = +7°C}	1.94 kW	1.56 kW
COP T _j = +7°C	6.40	4.30
C _{dh Tj = +7 °C}	0.900	0.900
P _{dh Tj = 12°C}	1.48 kW	1.32 kW
COP T _j = 12°C	8.05	5.66
C _{dh Tj = +12 °C}	0.900	0.900
P _{dh Tj = T_{biv}}	4.88 kW	3.89 kW
COP T _j = T _{biv}	3.19	2.17
P _{dh Tj = TOL or P_{dh Tj = T_{designh}} if TOL < T_{designh}}	4.42 kW	3.42 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.86	1.91
C _{dh Tj = TOL or P_{dh Tj = T_{designh}} if TOL < T_{designh}}	0.900	0.900
WTOL	65 °C	65 °C
P _{off}	14 W	14 W
PTO	24 W	24 W
PSB	14 W	14 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.11 kW	0.98 kW
Annual energy consumption Q _{he}	2326 kWh	2702 kWh

EN 14825 | Cooling

	+7°C/+12°C	+18°C/+23°C
P _{designc}	4.76 kW	4.64 kW
SEER	4.44	8.25
P _{dc Tj = 35°C}	4.76 kW	4.64 kW
EER T _j = 35°C	3.60	5.50
C _{dc Tj = 35 °C}	0.900	0.900

Pdc Tj = 30°C	3.44 kW	3.38 kW
EER Tj = 30°C	4.55	7.30
Cdc Tj = 30 °C	0.900	0.900
Pdc Tj = 25°C	2.19 kW	2.09 kW
EER Tj = 25°C	5.12	8.95
Cdc Tj = 25 °C	0.900	0.900
Pdc Tj = 20°C	0.95 kW	1.16 kW
EER Tj = 20°C	4.29	13.20
Cdc Tj = 20 °C	0.900	0.900
Poff	14 W	14 W
PTO	10 W	10 W
PSB	14 W	14 W
PCK	0 W	0 W
Annual energy consumption Qce	643 kWh	337 kWh

Model ALYA 6M E FS-A

Model name	ALYA 6M E FS-A
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
Reversibility	Yes
Cooling mode application (optional)	+7°C/12°C, +18°C/+23°C
Any additional heat sources	n/a

General data

Power supply	1x230V 50Hz
Off-peak product	n/a

Outdoor Air/Water**EN 16147 | Average Climate**

Declared load profile	L
Efficiency ηDHW	131 %
COP	3.14
Heating up time	1:35 h:min
Standby power input	28.5 W
Reference hot water temperature	53.0 °C
Mixed water at 40°C	240 l

EN 14511-4 | Heating

Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	6.20 kW	6.00 kW
El input	1.24 kW	2.00 kW
COP	5.00	3.00

EN 14511-2 | Cooling

	+7°C/+12°C	+18°C/+23°C
El input	7.18 kW	6.70 kW
Cooling capacity	2.39	1.35
EER	3.01	4.95

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
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Sound power level indoor	33 dB(A)	33 dB(A)
Sound power level outdoor	52 dB(A)	52 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	195 %	138 %
P _{rated}	6.82 kW	5.70 kW
SCOP	4.95	3.52
T _{biv}	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P _{dh Tj = -7°C}	6.03 kW	5.05 kW
COP T _j = -7°C	3.09	2.17
C _{dh Tj = -7 °C}	0.900	0.900
P _{dh Tj = +2°C}	3.88 kW	3.12 kW
COP T _j = +2°C	4.85	3.51
C _{dh Tj = +2 °C}	0.900	0.900
P _{dh Tj = +7°C}	2.40 kW	2.09 kW
COP T _j = +7°C	6.63	4.54
C _{dh Tj = +7 °C}	0.900	0.900
P _{dh Tj = 12°C}	1.39 kW	1.28 kW
COP T _j = 12°C	7.83	5.59
C _{dh Tj = +12 °C}	0.900	0.900
P _{dh Tj = T_{biv}}	6.03 kW	5.05 kW
COP T _j = T _{biv}	3.09	2.17
P _{dh Tj = TOL or P_{dh Tj = T_{designh}} if TOL < T_{designh}}	5.36 kW	4.52 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.76	1.91
C _{dh Tj = TOL or P_{dh Tj = T_{designh}} if TOL < T_{designh}}	0.900	0.900
WTOL	65 °C	65 °C
P _{off}	14 W	14 W
PTO	24 W	24 W
PSB	14 W	14 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.45 kW	1.18 kW
Annual energy consumption Q _{he}	2846 kWh	3341 kWh

EN 14825 | Cooling

	+7°C/+12°C	+18°C/+23°C
P _{designc}	7.18 kW	6.70 kW
SEER	4.75	8.44
P _{dc Tj = 35°C}	7.18 kW	6.70 kW
EER T _j = 35°C	3.01	4.95
C _{dc Tj = 35 °C}	0.900	0.900

Pdc Tj = 30°C	5.21 kW	4.93 kW
EER Tj = 30°C	4.47	7.22
Cdc Tj = 30 °C	0.900	0.900
Pdc Tj = 25°C	3.42 kW	3.51 kW
EER Tj = 25°C	5.21	9.45
Cdc Tj = 25 °C	0.900	0.900
Pdc Tj = 20°C	1.51 kW	1.43 kW
EER Tj = 20°C	5.68	12.89
Cdc Tj = 20 °C	0.900	0.900
Poff	14 W	14 W
PTO	10 W	10 W
PSB	14 W	14 W
PCK	0 W	0 W
Annual energy consumption Qce	907 kWh	477 kWh

Model ALYA 6M H FS-A

Model name	ALYA 6M H FS-A
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
Reversibility	Yes
Cooling mode application (optional)	+7°C/12°C, +18°C/+23°C
Any additional heat sources	n/a

General data

Power supply	n/a
Off-peak product	n/a

Outdoor Air/Water**EN 16147 | Average Climate**

Declared load profile	L
Efficiency ηDHW	131 %
COP	3.14
Heating up time	1:35 h:min
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Reference hot water temperature	53.0 °C
Mixed water at 40°C	240 l

EN 14511-4 | Heating

Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	6.20 kW	6.00 kW
El input	1.24 kW	2.00 kW
COP	5.00	3.00

EN 14511-2 | Cooling

	+7°C/+12°C	+18°C/+23°C
El input	7.18 kW	6.70 kW
Cooling capacity	2.39	1.35
EER	3.01	4.95

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
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Sound power level indoor	33 dB(A)	33 dB(A)
Sound power level outdoor	52 dB(A)	52 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	195 %	138 %
P _{rated}	6.82 kW	5.70 kW
SCOP	4.95	3.52
T _{biv}	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P _{dh Tj = -7°C}	6.03 kW	5.05 kW
COP T _j = -7°C	3.09	2.17
C _{dh Tj = -7 °C}	0.900	0.900
P _{dh Tj = +2°C}	3.88 kW	3.12 kW
COP T _j = +2°C	4.85	3.51
C _{dh Tj = +2 °C}	0.900	0.900
P _{dh Tj = +7°C}	2.40 kW	2.09 kW
COP T _j = +7°C	6.63	4.54
C _{dh Tj = +7 °C}	0.900	0.900
P _{dh Tj = 12°C}	1.39 kW	1.28 kW
COP T _j = 12°C	7.83	5.59
C _{dh Tj = +12 °C}	0.900	0.900
P _{dh Tj = T_{biv}}	6.03 kW	5.05 kW
COP T _j = T _{biv}	3.09	2.17
P _{dh Tj = TOL or P_{dh Tj = T_{designh}} if TOL < T_{designh}}	5.36 kW	4.52 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.76	1.91
C _{dh Tj = TOL or P_{dh Tj = T_{designh}} if TOL < T_{designh}}	0.900	0.900
WTOL	65 °C	65 °C
P _{off}	14 W	14 W
PTO	24 W	24 W
PSB	14 W	14 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.45 kW	1.18 kW
Annual energy consumption Q _{he}	2846 kWh	3341 kWh

EN 14825 | Cooling

	+7°C/+12°C	+18°C/+23°C
P _{designc}	7.18 kW	6.70 kW
SEER	4.75	8.44
P _{dc Tj = 35°C}	7.18 kW	6.70 kW
EER T _j = 35°C	3.01	4.95
C _{dc Tj = 35 °C}	0.900	0.900

Pdc Tj = 30°C	5.21 kW	4.93 kW
EER Tj = 30°C	4.47	7.22
Cdc Tj = 30 °C	0.900	0.900
Pdc Tj = 25°C	3.42 kW	3.51 kW
EER Tj = 25°C	5.21	9.45
Cdc Tj = 25 °C	0.900	0.900
Pdc Tj = 20°C	1.51 kW	1.43 kW
EER Tj = 20°C	5.68	12.89
Cdc Tj = 20 °C	0.900	0.900
Poff	14 W	14 W
PTO	10 W	10 W
PSB	14 W	14 W
PCK	0 W	0 W
Annual energy consumption Qce	907 kWh	477 kWh