

Subtype ALYA 12-16M WH-A & ALYA WH-A E EXPRESS 12-16M

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 12-16M WH-A & ALYA WH-A E EXPRESS 12-16M
Registration number	24.03.029
Heat Pump Type	Outdoor Air/Water
Refrigerant	R32
Mass of Refrigerant	1.84 kg
Certification Date	17.09.2024
Testing basis	EN 14511: 2018 / EN 14825: 2018 / EN 12102-1: 2017 / EN 16147: 2017
Testing laboratory	BDR Thermea France

Model ALYA 12M E WH-A

Model name	ALYA 12M E WH-A
Application	Heating (medium 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 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	12.10 kW	12.00 kW
El input	2.44 kW	3.87 kW
COP	4.95	3.10

EN 14511-2 | Cooling

	+7°C/+12°C	+18°C/+23°C
El input	10.55 kW	10.77 kW
Cooling capacity	4.19	2.92
EER	2.52	3.69

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	37 dB(A)	37 dB(A)
Sound power level outdoor	56 dB(A)	56 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
ηs	178 %	135 %
Prated	12.00 kW	11.58 kW
SCOP	4.52	3.46
Tbiv	-7 °C	-7 °C

TOL	-10 °C	-10 °C
Pdh Tj = -7°C	10.61 kW	10.25 kW
COP Tj = -7°C	2.88	2.01
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	6.48 kW	6.52 kW
COP Tj = +2°C	4.30	3.44
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	4.44 kW	4.36 kW
COP Tj = +7°C	6.00	4.59
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	3.74 kW	3.30 kW
COP Tj = 12°C	8.47	6.05
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	10.61 kW	10.25 kW
COP Tj = Tbiv	2.88	2.01
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.75 kW	9.10 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.79
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	65 °C	65 °C
Poff	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	1.26 kW	2.50 kW
Annual energy consumption Qhe	5482 kWh	6919 kWh

EN 14825 | Cooling

	+7°C/+12°C	+18°C/+23°C
Pdesignc	10.55 kW	10.77 kW
SEER	4.09	6.66
Pdc Tj = 35°C	10.55 kW	10.77 kW
EER Tj = 35°C	2.52	3.69
Cdc Tj = 35 °C	0.900	0.900
Pdc Tj = 30°C	7.78 kW	7.88 kW
EER Tj = 30°C	3.58	5.39
Cdc Tj = 30 °C	0.900	0.900
Pdc Tj = 25°C	5.17 kW	5.20 kW
EER Tj = 25°C	4.57	7.93
Cdc Tj = 25 °C	0.900	0.900
Pdc Tj = 20°C	2.24 kW	3.03 kW
EER Tj = 20°C	5.05	9.28
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	1548 kWh	971 kWh

Model ALYA 12M H WH-A

Model name	ALYA 12M H WH-A
Application	Heating (medium 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 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	12.10 kW	12.00 kW
El input	2.44 kW	3.87 kW
COP	4.95	3.10

EN 14511-2 | Cooling

	+7°C/+12°C	+18°C/+23°C
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Cooling capacity	4.19	2.92
EER	2.52	3.69

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EN 14825 | Average Climate

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ηs	178 %	135 %
Prated	12.00 kW	11.58 kW
SCOP	4.52	3.46
Tbiv	-7 °C	-7 °C

TOL	-10 °C	-10 °C
Pdh Tj = -7°C	10.61 kW	10.25 kW
COP Tj = -7°C	2.88	2.01
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	6.48 kW	6.52 kW
COP Tj = +2°C	4.30	3.44
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	4.44 kW	4.36 kW
COP Tj = +7°C	6.00	4.59
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	3.74 kW	3.30 kW
COP Tj = 12°C	8.47	6.05
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Pdh Tj = Tbiv	10.61 kW	10.25 kW
COP Tj = Tbiv	2.88	2.01
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.75 kW	9.10 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.79
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	65 °C	65 °C
Poff	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	1.26 kW	2.50 kW
Annual energy consumption Qhe	5482 kWh	6919 kWh

EN 14825 | Cooling

	+7°C/+12°C	+18°C/+23°C
Pdesignc	10.55 kW	10.77 kW
SEER	4.09	6.66
Pdc Tj = 35°C	10.55 kW	10.77 kW
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Cdc Tj = 35 °C	0.900	0.900
Pdc Tj = 30°C	7.78 kW	7.88 kW
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Pdc Tj = 25°C	5.17 kW	5.20 kW
EER Tj = 25°C	4.57	7.93
Cdc Tj = 25 °C	0.900	0.900
Pdc Tj = 20°C	2.24 kW	3.03 kW
EER Tj = 20°C	5.05	9.28
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	1548 kWh	971 kWh

Model ALYA 12T E WH-A

Model name	ALYA 12T E WH-A
Application	Heating (medium 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	3x400V 50Hz
Off-peak product	n/a

Outdoor Air/Water**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	12.10 kW	12.00 kW
El input	2.44 kW	3.87 kW
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EN 14511-2 | Cooling

	+7°C/+12°C	+18°C/+23°C
El input	10.55 kW	10.77 kW
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EER	2.52	3.69

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Prated	12.00 kW	11.58 kW
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TOL	-10 °C	-10 °C
Pdh Tj = -7°C	10.61 kW	10.25 kW
COP Tj = -7°C	2.88	2.01
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	6.48 kW	6.52 kW
COP Tj = +2°C	4.30	3.44
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	4.44 kW	4.36 kW
COP Tj = +7°C	6.00	4.59
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	3.74 kW	3.30 kW
COP Tj = 12°C	8.47	6.05
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	10.61 kW	10.25 kW
COP Tj = Tbiv	2.88	2.01
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.75 kW	9.10 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.79
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	65 °C	65 °C
Poff	20 W	20 W
PTO	30 W	30 W
PSB	20 W	20 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.26 kW	2.50 kW
Annual energy consumption Qhe	5482 kWh	6919 kWh

EN 14825 | Cooling

	+7°C/+12°C	+18°C/+23°C
Pdesignc	10.55 kW	10.77 kW
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Pdc Tj = 30°C	7.78 kW	7.88 kW
EER Tj = 30°C	3.58	5.39
Cdc Tj = 30 °C	0.900	0.900
Pdc Tj = 25°C	5.17 kW	5.20 kW
EER Tj = 25°C	4.57	7.93
Cdc Tj = 25 °C	0.900	0.900
Pdc Tj = 20°C	2.24 kW	3.03 kW
EER Tj = 20°C	5.05	9.28
Cdc Tj = 20 °C	0.900	0.900

Poff	20 W	20 W
PTO	10 W	10 W
PSB	20 W	20 W
PCK	0 W	0 W
Annual energy consumption Qce	1548 kWh	971 kWh

Model ALYA 12T H WH-A

Model name	ALYA 12T H WH-A
Application	Heating (medium 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	3x400V 50Hz
Off-peak product	n/a

Outdoor Air/Water
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	12.10 kW	12.00 kW
El input	2.44 kW	3.87 kW
COP	4.95	3.10

EN 14511-2 | Cooling

	+7°C/+12°C	+18°C/+23°C
El input	10.55 kW	10.77 kW
Cooling capacity	4.19	2.92
EER	2.52	3.69

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	37 dB(A)	37 dB(A)
Sound power level outdoor	56 dB(A)	56 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
ηs	178 %	135 %
Prated	12.00 kW	11.58 kW
SCOP	4.52	3.46
Tbiv	-7 °C	-7 °C

TOL	-10 °C	-10 °C
Pdh Tj = -7°C	10.61 kW	10.25 kW
COP Tj = -7°C	2.88	2.01
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	6.48 kW	6.52 kW
COP Tj = +2°C	4.30	3.44
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	4.44 kW	4.36 kW
COP Tj = +7°C	6.00	4.59
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	3.74 kW	3.30 kW
COP Tj = 12°C	8.47	6.05
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	10.61 kW	10.25 kW
COP Tj = Tbiv	2.88	2.01
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.75 kW	9.10 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.79
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	65 °C	65 °C
Poff	20 W	20 W
PTO	30 W	30 W
PSB	20 W	20 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.26 kW	2.50 kW
Annual energy consumption Qhe	5482 kWh	6919 kWh

EN 14825 | Cooling

	+7°C/+12°C	+18°C/+23°C
Pdesignc	10.55 kW	10.77 kW
SEER	4.09	6.66
Pdc Tj = 35°C	10.55 kW	10.77 kW
EER Tj = 35°C	2.52	3.69
Cdc Tj = 35 °C	0.900	0.900
Pdc Tj = 30°C	7.78 kW	7.88 kW
EER Tj = 30°C	3.58	5.39
Cdc Tj = 30 °C	0.900	0.900
Pdc Tj = 25°C	5.17 kW	5.20 kW
EER Tj = 25°C	4.57	7.93
Cdc Tj = 25 °C	0.900	0.900
Pdc Tj = 20°C	2.24 kW	3.03 kW
EER Tj = 20°C	5.05	9.28
Cdc Tj = 20 °C	0.900	0.900

Poff	20 W	20 W
PTO	10 W	10 W
PSB	20 W	20 W
PCK	0 W	0 W
Annual energy consumption Qce	1548 kWh	971 kWh

Model ALYA 16M E WH-A

Model name	ALYA 16M E WH-A
Application	Heating (medium 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 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	16.00 kW	16.00 kW
El input	3.56 kW	5.52 kW
COP	4.50	2.90

EN 14511-2 | Cooling

	+7°C/+12°C	+18°C/+23°C
El input	12.36 kW	11.63 kW
Cooling capacity	5.44	3.22
EER	2.27	3.61

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	37 dB(A)	37 dB(A)
Sound power level outdoor	56 dB(A)	56 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
ηs	177 %	133 %
Prated	15.21 kW	13.02 kW
SCOP	4.50	3.41
Tbiv	-7 °C	-7 °C

TOL	-10 °C	-10 °C
Pdh Tj = -7°C	13.45 kW	11.52 kW
COP Tj = -7°C	2.72	1.99
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	8.20 kW	7.18 kW
COP Tj = +2°C	4.30	3.34
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	5.70 kW	4.56 kW
COP Tj = +7°C	6.20	4.61
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	3.78 kW	3.32 kW
COP Tj = 12°C	8.51	6.07
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	13.45 kW	11.52 kW
COP Tj = Tbiv	2.72	1.99
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	12.52 kW	10.33 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.48	1.80
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	65 °C	65 °C
Poff	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	2.68 kW	2.67 kW
Annual energy consumption Qhe	6979 kWh	7890 kWh

EN 14825 | Cooling

	+7°C/+12°C	+18°C/+23°C
Pdesignc	12.36 kW	11.63 kW
SEER	4.23	6.19
Pdc Tj = 35°C	12.36 kW	11.63 kW
EER Tj = 35°C	2.27	3.61
Cdc Tj = 35 °C	0.900	0.900
Pdc Tj = 30°C	9.40 kW	8.67 kW
EER Tj = 30°C	3.41	5.22
Cdc Tj = 30 °C	0.900	0.900
Pdc Tj = 25°C	5.89 kW	5.39 kW
EER Tj = 25°C	4.89	7.78
Cdc Tj = 25 °C	0.900	0.900
Pdc Tj = 20°C	2.81 kW	2.48 kW
EER Tj = 20°C	5.80	6.89
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	1754 kWh	1128 kWh

Model ALYA 16M H WH-A

Model name	ALYA 16M H WH-A
Application	Heating (medium 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 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	16.00 kW	16.00 kW
El input	3.56 kW	5.52 kW
COP	4.50	2.90

EN 14511-2 | Cooling

	+7°C/+12°C	+18°C/+23°C
El input	12.36 kW	11.63 kW
Cooling capacity	5.44	3.22
EER	2.27	3.61

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	37 dB(A)	37 dB(A)
Sound power level outdoor	56 dB(A)	56 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	177 %	133 %
Prated	15.21 kW	13.02 kW
SCOP	4.50	3.41
Tbiv	-7 °C	-7 °C

TOL	-10 °C	-10 °C
Pdh Tj = -7°C	13.45 kW	11.52 kW
COP Tj = -7°C	2.72	1.99
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	8.20 kW	7.18 kW
COP Tj = +2°C	4.30	3.34
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	5.70 kW	4.56 kW
COP Tj = +7°C	6.20	4.61
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	3.78 kW	3.32 kW
COP Tj = 12°C	8.51	6.07
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	13.45 kW	11.52 kW
COP Tj = Tbiv	2.72	1.99
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	12.52 kW	10.33 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.48	1.80
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	65 °C	65 °C
Poff	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	2.68 kW	2.67 kW
Annual energy consumption Qhe	6979 kWh	7890 kWh

EN 14825 | Cooling

	+7°C/+12°C	+18°C/+23°C
Pdesignc	12.36 kW	11.63 kW
SEER	4.23	6.19
Pdc Tj = 35°C	12.36 kW	11.63 kW
EER Tj = 35°C	2.27	3.61
Cdc Tj = 35 °C	0.900	0.900
Pdc Tj = 30°C	9.40 kW	8.67 kW
EER Tj = 30°C	3.41	5.22
Cdc Tj = 30 °C	0.900	0.900
Pdc Tj = 25°C	5.89 kW	5.39 kW
EER Tj = 25°C	4.89	7.78
Cdc Tj = 25 °C	0.900	0.900
Pdc Tj = 20°C	2.81 kW	2.48 kW
EER Tj = 20°C	5.80	6.89
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	1754 kWh	1128 kWh

Model ALYA 16T E WH-A

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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	3x400V 50Hz
Off-peak product	n/a

Outdoor Air/Water**EN 14511-4 | Heating**

Shutting off the heat transfer medium flow passed

Complete power supply failure	passed
Defrost test	passed
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EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	16.00 kW	16.00 kW
El input	3.56 kW	5.52 kW
COP	4.50	2.90

EN 14511-2 | Cooling

	+7°C/+12°C	+18°C/+23°C
El input	12.36 kW	11.63 kW
Cooling capacity	5.44	3.22
EER	2.27	3.61

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	37 dB(A)	37 dB(A)
Sound power level outdoor	56 dB(A)	56 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	177 %	133 %
Prated	15.21 kW	13.02 kW
SCOP	4.50	3.41
Tbiv	-7 °C	-7 °C

TOL	-10 °C	-10 °C
Pdh Tj = -7°C	13.45 kW	11.52 kW
COP Tj = -7°C	2.72	1.99
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	8.20 kW	7.18 kW
COP Tj = +2°C	4.30	3.34
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	5.70 kW	4.56 kW
COP Tj = +7°C	6.20	4.61
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	3.78 kW	3.32 kW
COP Tj = 12°C	8.51	6.07
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	13.45 kW	11.52 kW
COP Tj = Tbiv	2.72	1.99
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	12.52 kW	10.33 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.48	1.80
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	65 °C	65 °C
Poff	20 W	20 W
PTO	30 W	30 W
PSB	20 W	20 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	2.68 kW	2.67 kW
Annual energy consumption Qhe	6979 kWh	7890 kWh

EN 14825 | Cooling

	+7°C/+12°C	+18°C/+23°C
Pdesignc	12.36 kW	11.63 kW
SEER	4.23	6.19
Pdc Tj = 35°C	12.36 kW	11.63 kW
EER Tj = 35°C	2.27	3.61
Cdc Tj = 35 °C	0.900	0.900
Pdc Tj = 30°C	9.40 kW	8.67 kW
EER Tj = 30°C	3.41	5.22
Cdc Tj = 30 °C	0.900	0.900
Pdc Tj = 25°C	5.89 kW	5.39 kW
EER Tj = 25°C	4.89	7.78
Cdc Tj = 25 °C	0.900	0.900
Pdc Tj = 20°C	2.81 kW	2.48 kW
EER Tj = 20°C	5.80	6.89
Cdc Tj = 20 °C	0.900	0.900

Poff	20 W	20 W
PTO	10 W	10 W
PSB	20 W	20 W
PCK	0 W	0 W
Annual energy consumption Qce	1754 kWh	1128 kWh

Model ALYA 16T H WH-A

Model name	ALYA 16T H WH-A
Application	Heating (medium 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	3x400V 50Hz
Off-peak product	n/a

Outdoor Air/Water**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	16.00 kW	16.00 kW
El input	3.56 kW	5.52 kW
COP	4.50	2.90

EN 14511-2 | Cooling

	+7°C/+12°C	+18°C/+23°C
El input	12.36 kW	11.63 kW
Cooling capacity	5.44	3.22
EER	2.27	3.61

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	37 dB(A)	37 dB(A)
Sound power level outdoor	56 dB(A)	56 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
ηs	177 %	133 %
Prated	15.21 kW	13.02 kW
SCOP	4.50	3.41
Tbiv	-7 °C	-7 °C

TOL	-10 °C	-10 °C
Pdh Tj = -7°C	13.45 kW	11.52 kW
COP Tj = -7°C	2.72	1.99
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	8.20 kW	7.18 kW
COP Tj = +2°C	4.30	3.34
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	5.70 kW	4.56 kW
COP Tj = +7°C	6.20	4.61
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	3.78 kW	3.32 kW
COP Tj = 12°C	8.51	6.07
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	13.45 kW	11.52 kW
COP Tj = Tbiv	2.72	1.99
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	12.52 kW	10.33 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.48	1.80
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	65 °C	65 °C
Poff	20 W	20 W
PTO	30 W	30 W
PSB	20 W	20 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	2.68 kW	2.67 kW
Annual energy consumption Qhe	6979 kWh	7890 kWh

EN 14825 | Cooling

	+7°C/+12°C	+18°C/+23°C
Pdesignc	12.36 kW	11.63 kW
SEER	4.23	6.19
Pdc Tj = 35°C	12.36 kW	11.63 kW
EER Tj = 35°C	2.27	3.61
Cdc Tj = 35 °C	0.900	0.900
Pdc Tj = 30°C	9.40 kW	8.67 kW
EER Tj = 30°C	3.41	5.22
Cdc Tj = 30 °C	0.900	0.900
Pdc Tj = 25°C	5.89 kW	5.39 kW
EER Tj = 25°C	4.89	7.78
Cdc Tj = 25 °C	0.900	0.900
Pdc Tj = 20°C	2.81 kW	2.48 kW
EER Tj = 20°C	5.80	6.89
Cdc Tj = 20 °C	0.900	0.900

Poff	20 W	20 W
PTO	10 W	10 W
PSB	20 W	20 W
PCK	0 W	0 W
Annual energy consumption Qce	1754 kWh	1128 kWh

Model ALYA WH-A E EXPRESS 12M

Model name	ALYA WH-A E EXPRESS 12M
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	108 %
COP	2.60
Heating up time	0:57 h:min
Standby power input	35.1 W
Reference hot water temperature	53.7 °C
Mixed water at 40°C	248 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	12.10 kW	12.00 kW
El input	2.44 kW	3.87 kW
COP	4.95	3.10

EN 14511-2 | Cooling

	+7°C/+12°C	+18°C/+23°C
El input	10.55 kW	10.77 kW
Cooling capacity	4.19	2.92
EER	2.52	3.69

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
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Sound power level indoor	37 dB(A)	37 dB(A)
Sound power level outdoor	56 dB(A)	56 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	178 %	135 %
P _{rated}	12.00 kW	11.58 kW
SCOP	4.52	3.46
T _{biv}	-7 °C	-7 °C
T _{OL}	-10 °C	-10 °C
P _{dh T_j} = -7°C	10.61 kW	10.25 kW
COP T _j = -7°C	2.88	2.01
C _{dh T_j} = -7 °C	0.900	0.900
P _{dh T_j} = +2°C	6.48 kW	6.52 kW
COP T _j = +2°C	4.30	3.44
C _{dh T_j} = +2 °C	0.900	0.900
P _{dh T_j} = +7°C	4.44 kW	4.36 kW
COP T _j = +7°C	6.00	4.59
C _{dh T_j} = +7 °C	0.900	0.900
P _{dh T_j} = 12°C	3.74 kW	3.30 kW
COP T _j = 12°C	8.47	6.05
C _{dh T_j} = +12 °C	0.900	0.900
P _{dh T_j} = T _{biv}	10.61 kW	10.25 kW
COP T _j = T _{biv}	2.88	2.01
P _{dh T_j} = T _{OL} or P _{dh T_j} = T _{designh} if T _{OL} < T _{designh}	10.75 kW	9.10 kW
COP T _j = T _{OL} or COP T _j = T _{designh} if T _{OL} < T _{designh}	2.77	1.79
C _{dh T_j} = T _{OL} or P _{dh T_j} = T _{designh} if T _{OL} < 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	1.26 kW	2.50 kW
Annual energy consumption Q _{he}	5482 kWh	6919 kWh

EN 14825 | Cooling

	+7°C/+12°C	+18°C/+23°C
P _{designc}	10.55 kW	10.77 kW
SEER	4.09	6.66
P _{dc T_j} = 35°C	10.55 kW	10.77 kW
EER T _j = 35°C	2.52	3.69
C _{dc T_j} = 35 °C	0.900	0.900

Pdc Tj = 30°C	7.78 kW	7.88 kW
EER Tj = 30°C	3.58	5.39
Cdc Tj = 30 °C	0.900	0.900
Pdc Tj = 25°C	5.17 kW	5.20 kW
EER Tj = 25°C	4.57	7.93
Cdc Tj = 25 °C	0.900	0.900
Pdc Tj = 20°C	2.24 kW	3.03 kW
EER Tj = 20°C	5.05	9.28
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	1548 kWh	971 kWh

Model ALYA WH-A E EXPRESS 12T

Model name	ALYA WH-A E EXPRESS 12T
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	3x400V 50Hz
Off-peak product	n/a

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

Declared load profile	L
Efficiency ηDHW	108 %
COP	2.60
Heating up time	0:57 h:min
Standby power input	35.1 W
Reference hot water temperature	53.7 °C
Mixed water at 40°C	248 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	12.10 kW	12.00 kW
El input	2.44 kW	3.87 kW
COP	4.95	3.10

EN 14511-2 | Cooling

	+7°C/+12°C	+18°C/+23°C
El input	10.55 kW	10.77 kW
Cooling capacity	4.19	2.92
EER	2.52	3.69

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
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Sound power level indoor	37 dB(A)	37 dB(A)
Sound power level outdoor	56 dB(A)	56 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	178 %	135 %
P _{rated}	12.00 kW	11.58 kW
SCOP	4.52	3.46
T _{biv}	-7 °C	-7 °C
T _{OL}	-10 °C	-10 °C
P _{dh T_j} = -7°C	10.61 kW	10.25 kW
COP T _j = -7°C	2.88	2.01
C _{dh T_j} = -7 °C	0.900	0.900
P _{dh T_j} = +2°C	6.48 kW	6.52 kW
COP T _j = +2°C	4.30	3.44
C _{dh T_j} = +2 °C	0.900	0.900
P _{dh T_j} = +7°C	4.44 kW	4.36 kW
COP T _j = +7°C	6.00	4.59
C _{dh T_j} = +7 °C	0.900	0.900
P _{dh T_j} = 12°C	3.74 kW	3.30 kW
COP T _j = 12°C	8.47	6.05
C _{dh T_j} = +12 °C	0.900	0.900
P _{dh T_j} = T _{biv}	10.61 kW	10.25 kW
COP T _j = T _{biv}	2.88	2.01
P _{dh T_j} = T _{OL} or P _{dh T_j} = T _{designh} if T _{OL} < T _{designh}	10.75 kW	9.10 kW
COP T _j = T _{OL} or COP T _j = T _{designh} if T _{OL} < T _{designh}	2.77	1.79
C _{dh T_j} = T _{OL} or P _{dh T_j} = T _{designh} if T _{OL} < T _{designh}	0.900	0.900
WTOL	65 °C	65 °C
P _{off}	20 W	20 W
PTO	30 W	30 W
PSB	20 W	20 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.26 kW	2.50 kW
Annual energy consumption Q _{he}	5482 kWh	6919 kWh

EN 14825 | Cooling

	+7°C/+12°C	+18°C/+23°C
P _{designc}	10.55 kW	10.77 kW
SEER	4.09	6.66
P _{dc T_j} = 35°C	10.55 kW	10.77 kW
EER T _j = 35°C	2.52	3.69
C _{dc T_j} = 35 °C	0.900	0.900

Pdc Tj = 30°C	7.78 kW	7.88 kW
EER Tj = 30°C	3.58	5.39
Cdc Tj = 30 °C	0.900	0.900
Pdc Tj = 25°C	5.17 kW	5.20 kW
EER Tj = 25°C	4.57	7.93
Cdc Tj = 25 °C	0.900	0.900
Pdc Tj = 20°C	2.24 kW	3.03 kW
EER Tj = 20°C	5.05	9.28
Cdc Tj = 20 °C	0.900	0.900
Poff	20 W	20 W
PTO	10 W	10 W
PSB	20 W	20 W
PCK	0 W	0 W
Annual energy consumption Qce	1548 kWh	971 kWh

Model ALYA WH-A E EXPRESS 16M

Model name	ALYA WH-A E EXPRESS 16M
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	108 %
COP	2.60
Heating up time	0:57 h:min
Standby power input	35.1 W
Reference hot water temperature	53.7 °C
Mixed water at 40°C	248 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	16.00 kW	16.00 kW
El input	3.56 kW	5.52 kW
COP	4.50	2.90

EN 14511-2 | Cooling

	+7°C/+12°C	+18°C/+23°C
El input	12.36 kW	11.63 kW
Cooling capacity	5.44	3.22
EER	2.27	3.61

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
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Sound power level indoor	37 dB(A)	37 dB(A)
Sound power level outdoor	56 dB(A)	56 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	177 %	133 %
P _{rated}	15.21 kW	13.02 kW
SCOP	4.50	3.41
T _{biv}	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P _{dh Tj = -7°C}	13.45 kW	11.52 kW
COP T _j = -7°C	2.72	1.99
C _{dh Tj = -7 °C}	0.900	0.900
P _{dh Tj = +2°C}	8.20 kW	7.18 kW
COP T _j = +2°C	4.30	3.34
C _{dh Tj = +2 °C}	0.900	0.900
P _{dh Tj = +7°C}	5.70 kW	4.56 kW
COP T _j = +7°C	6.20	4.61
C _{dh Tj = +7 °C}	0.900	0.900
P _{dh Tj = 12°C}	3.78 kW	3.32 kW
COP T _j = 12°C	8.51	6.07
C _{dh Tj = +12 °C}	0.900	0.900
P _{dh Tj = T_{biv}}	13.45 kW	11.52 kW
COP T _j = T _{biv}	2.72	1.99
P _{dh Tj = TOL or P_{dh Tj = T_{designh}} if TOL < T_{designh}}	12.52 kW	10.33 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.48	1.80
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	2.68 kW	2.67 kW
Annual energy consumption Q _{he}	6979 kWh	7890 kWh

EN 14825 | Cooling

	+7°C/+12°C	+18°C/+23°C
P _{designc}	12.36 kW	11.63 kW
SEER	4.23	6.19
P _{dc Tj = 35°C}	12.36 kW	11.63 kW
EER T _j = 35°C	2.27	3.61
C _{dc Tj = 35 °C}	0.900	0.900

Pdc Tj = 30°C	9.40 kW	8.67 kW
EER Tj = 30°C	3.41	5.22
Cdc Tj = 30 °C	0.900	0.900
Pdc Tj = 25°C	5.89 kW	5.39 kW
EER Tj = 25°C	4.89	7.78
Cdc Tj = 25 °C	0.900	0.900
Pdc Tj = 20°C	2.81 kW	2.48 kW
EER Tj = 20°C	5.80	6.89
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	1754 kWh	1128 kWh

Model ALYA WH-A E EXPRESS 16T

Model name	ALYA WH-A E EXPRESS 16T
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	3x400V 50Hz
Off-peak product	n/a

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

Declared load profile	L
Efficiency ηDHW	108 %
COP	2.60
Heating up time	0:57 h:min
Standby power input	35.1 W
Reference hot water temperature	53.7 °C
Mixed water at 40°C	248 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	16.00 kW	16.00 kW
El input	3.56 kW	5.52 kW
COP	4.50	2.90

EN 14511-2 | Cooling

	Low temperature	Medium temperature
El input	12.36 kW	11.63 kW
Cooling capacity	5.44	3.22
EER	2.27	3.61

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
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Sound power level indoor	37 dB(A)	37 dB(A)
Sound power level outdoor	56 dB(A)	56 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	177 %	133 %
P _{rated}	15.21 kW	13.02 kW
SCOP	4.50	3.41
T _{biv}	-7 °C	-7 °C
T _{OL}	-10 °C	-10 °C
P _{dh T_j} = -7°C	13.45 kW	11.52 kW
COP T _j = -7°C	2.72	1.99
C _{dh T_j} = -7 °C	0.900	0.900
P _{dh T_j} = +2°C	8.20 kW	7.18 kW
COP T _j = +2°C	4.30	3.34
C _{dh T_j} = +2 °C	0.900	0.900
P _{dh T_j} = +7°C	5.70 kW	4.56 kW
COP T _j = +7°C	6.20	4.61
C _{dh T_j} = +7 °C	0.900	0.900
P _{dh T_j} = 12°C	3.78 kW	3.32 kW
COP T _j = 12°C	8.51	6.07
C _{dh T_j} = +12 °C	0.900	0.900
P _{dh T_j} = T _{biv}	13.45 kW	11.52 kW
COP T _j = T _{biv}	2.72	1.99
P _{dh T_j} = T _{OL} or P _{dh T_j} = T _{designh} if T _{OL} < T _{designh}	12.52 kW	10.33 kW
COP T _j = T _{OL} or COP T _j = T _{designh} if T _{OL} < T _{designh}	2.48	1.80
C _{dh T_j} = T _{OL} or P _{dh T_j} = T _{designh} if T _{OL} < T _{designh}	0.900	0.900
WTOL	65 °C	65 °C
P _{off}	20 W	20 W
PTO	30 W	30 W
PSB	20 W	20 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	2.68 kW	2.67 kW
Annual energy consumption Q _{he}	6979 kWh	7890 kWh

EN 14825 | Cooling

	+7°C/+12°C	+18°C/+23°C
P _{designc}	12.36 kW	11.63 kW
SEER	4.23	6.19
P _{dc T_j} = 35°C	12.36 kW	11.63 kW
EER T _j = 35°C	2.27	3.61
C _{dc T_j} = 35 °C	0.900	0.900

Pdc Tj = 30°C	9.40 kW	8.67 kW
EER Tj = 30°C	3.41	5.22
Cdc Tj = 30 °C	0.900	0.900
Pdc Tj = 25°C	5.89 kW	5.39 kW
EER Tj = 25°C	4.89	7.78
Cdc Tj = 25 °C	0.900	0.900
Pdc Tj = 20°C	2.81 kW	2.48 kW
EER Tj = 20°C	5.80	6.89
Cdc Tj = 20 °C	0.900	0.900
Poff	20 W	20 W
PTO	10 W	10 W
PSB	20 W	20 W
PCK	0 W	0 W
Annual energy consumption Qce	1754 kWh	1128 kWh