

Subtype ALYA 12/16M WH-A	
Certificate Holder	BAXI S.p.A.
Address	Via Trozzetti, 20
ZIP	
City	Bassano del Grappa (VI)
Country	IT
Certification Body	Kiwa Nederland B.V.
Subtype title	ALYA 12/16M WH-A
Registration number	007-DN0149
Heat Pump Type	Outdoor Air/Water
Refrigerant	R32
Mass of Refrigerant	1.84 kg
Certification Date	11.11.2022
Testing basis	European KEYMARK Scheme for Heat Pumps (v10)

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 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
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 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
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 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
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 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
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 16T E WH-A		
Model name	ALYA 16T 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	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 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 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