

## Subtype alpha SE M-AW 8

Certificate Holder	ait-deutschland GmbH
Address	Industriestr. 3
ZIP	95359
City	Kasendorf
Country	DE
Certification Body	UL International Italia S.r.l.
Subtype title	alpha SE M-AW 8
Registration number	047-A1003
Heat Pump Type	Outdoor Air/Water
Refrigerant	R290
Mass of Refrigerant	0.8 kg
Certification Date	21.07.2025
Testing basis	Heat Pump Keymark scheme rules V15
Testing laboratory	Centro de Ensayos, Innovación y Servicios (CEIS), ES

## Model alpha SE M-AW 8 1P

Model name	alpha SE M-AW 8 1P
Application	Heating (medium temp)
Units	Outdoor
Climate zone (for heating)	n/a
Reversibility	Yes
Cooling mode application (optional)	n/a
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	8.15 kW	8.28 kW
EI input	1.73 kW	2.74 kW
COP	4.71	3.02

### EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level outdoor	50 dB(A)	53 dB(A)

### EN 14825 | Average Climate

	Low temperature	Medium temperature
$\eta_s$	188 %	148 %
Prated	7.50 kW	6.50 kW
SCOP	4.78	3.78
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	7.02 kW	6.01 kW
COP Tj = -7°C	2.59	2.26
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	3.83 kW	3.26 kW
COP Tj = +2°C	4.98	3.75
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	2.61 kW	2.25 kW

COP Tj = +7°C	6.18	4.90
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	2.33 kW	2.35 kW
COP Tj = 12°C	7.63	6.78
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	7.02 kW	6.01 kW
COP Tj = Tbiv	2.59	2.26
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.91 kW	5.99 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.47	1.94
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	75 °C	75 °C
Poff	6 W	6 W
PTO	6 W	6 W
PSB	6 W	6 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.59 kW	0.51 kW
Annual energy consumption Qhe	3241 kWh	3556 kWh

## Model alpha SE M-AW 8 3P

Model name	alpha SE M-AW 8 3P
Application	Heating (medium temp)
Units	Outdoor
Climate zone (for heating)	n/a
Reversibility	Yes
Cooling mode application (optional)	n/a
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

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