

## Subtype NOVELAN SE MO-AW 14

Certificate Holder	ait-deutschland GmbH
Address	Industriestr. 3
ZIP	95359
City	Kasendorf
Country	DE
Certification Body	UL International Italia S.r.l.
Subtype title	NOVELAN SE MO-AW 14
Registration number	047-A1004
Heat Pump Type	Outdoor Air/Water
Refrigerant	R290
Mass of Refrigerant	1.6 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 NOVELAN SE MO-AW 14 1P

Model name	NOVELAN SE MO-AW 14 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	16.05 kW	15.40 kW
El input	3.73 kW	5.27 kW
COP	4.30	2.92

## EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level outdoor	52 dB(A)	51 dB(A)

## EN 14825 | Average Climate

	Low temperature	Medium temperature
$\eta_s$	203 %	156 %
Prated	13.50 kW	12.50 kW
SCOP	5.15	
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	11.15 kW	10.54 kW
COP Tj = -7°C	2.92	2.14
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	7.04 kW	7.27 kW
COP Tj = +2°C	5.26	3.83
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	4.36 kW	4.67 kW

COP Tj = +7°C	7.21	5.74
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	3.87 kW	3.86 kW
COP Tj = 12°C	10.43	8.47
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	11.15 kW	10.54 kW
COP Tj = Tbiv	2.92	2.14
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.62 kW	9.92 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.60	1.98
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	2.88 kW	2.58 kW
Annual energy consumption Qhe	5421 kWh	6507 kWh

## Model NOVELAN SE MO-AW 14 3P

Model name	NOVELAN SE MO-AW 14 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

	Low temperature	Medium temperature
Heat output	16.05 kW	15.40 kW
El input	3.73 kW	5.27 kW
COP	4.30	2.92

## EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level outdoor	52 dB(A)	51 dB(A)

## EN 14825 | Average Climate

	Low temperature	Medium temperature
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COP Tj = -7°C	2.92	2.14
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	7.04 kW	7.27 kW
COP Tj = +2°C	5.26	3.83
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	4.36 kW	4.67 kW

COP Tj = +7°C	7.21	5.74
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	3.87 kW	3.86 kW
COP Tj = 12°C	10.43	8.47
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	11.15 kW	10.54 kW
COP Tj = Tbiv	2.92	2.14
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.62 kW	9.92 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.60	1.98
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Supplementary Heater: PSUP	2.88 kW	2.58 kW
Annual energy consumption Qhe	5421 kWh	6507 kWh