

Subtype S2125-12

Certificate Holder	Nibe AB
Address	Box 14
ZIP	S-28521
City	Markaryd
Country	SE
Certification Body	RISE CERT
Subtype title	S2125-12
Registration number	012-C700115
Heat Pump Type	Outdoor Air/Water
Refrigerant	R290
Mass of Refrigerant	0.8 kg
Certification Date	30.12.2021
Testing basis	EN 14511:2018, EN 14825:2018, EN 12102:2017
Testing laboratory	RISE Research Institutes of Sweden

Model S2125-12 3x400V

Model name	S2125-12 3x400V
Application	Heating (medium temp)
Units	Outdoor
Climate zone (for heating)	Colder Climate
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	6.36 kW	7.91 kW
El input	1.25 kW	2.44 kW
COP	5.10	3.25

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level outdoor	49 dB(A)	49 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	195 %	150 %
Prated	6.80 kW	7.60 kW
SCOP	4.96	3.83
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.47 kW	6.73 kW
COP Tj = -7°C	2.86	2.17
Cdh Tj = -7 °C	0.990	1.000
Pdh Tj = +2°C	3.64 kW	4.18 kW
COP Tj = +2°C	5.03	3.83
Cdh Tj = +2 °C	0.980	0.990
Pdh Tj = +7°C	2.44 kW	2.68 kW

COP Tj = +7°C	6.49	5.12
Cdh Tj = +7 °C	0.970	0.980
Pdh Tj = 12°C	2.47 kW	2.40 kW
COP Tj = 12°C	7.36	5.87
Cdh Tj = +12 °C	0.960	0.970
Pdh Tj = Tbiv	6.63 kW	7.60 kW
COP Tj = Tbiv	2.51	2.11
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.63 kW	7.60 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.51	2.11
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	1.000	1.000
WTOL	65 °C	65 °C
Poff	8 W	8 W
PTO	13 W	13 W
PSB	11 W	11 W
PCK	5 W	5 W
Supplementary Heater: Type of energy input	n/a	n/a
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	2835 kWh	4102 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level outdoor	49 dB(A)	49 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
ηs	163 %	131 %
Prated	8.40 kW	8.40 kW
SCOP	4.15	3.35
Tbiv	-15 °C	-15 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	5.04 kW	4.98 kW
COP Tj = -7°C	3.08	2.53
Cdh Tj = -7 °C	0.990	0.990
Pdh Tj = +2°C	3.11 kW	3.18 kW
COP Tj = +2°C	5.40	4.25
Cdh Tj = +2 °C	0.980	0.980
Pdh Tj = +7°C	2.24 kW	2.19 kW
COP Tj = +7°C	6.65	5.31
Cdh Tj = +7 °C	0.960	0.970
Pdh Tj = 12°C	2.47 kW	2.41 kW
COP Tj = 12°C	7.36	6.06
Cdh Tj = +12 °C	0.960	0.970
Pdh Tj = Tbiv	6.87 kW	6.81 kW

COP Tj = T _{biv}	2.61	2.13
P _{dh} Tj = TOL or P _{dh} Tj = T _{designh} if TOL < T _{designh}	5.67 kW	5.56 kW
COP Tj = TOL or COP Tj = T _{designh} if TOL < T _{designh}	2.22	1.68
C _{dh} Tj = TOL or P _{dh} Tj = T _{designh} if TOL < T _{designh}	1.000	1.000
WTOL	65 °C	65 °C
P _{off}	8 W	8 W
PTO	13 W	13 W
PSB	11 W	11 W
PCK	5 W	5 W
Supplementary Heater: Type of energy input	n/a	n/a
Supplementary Heater: PSUP	2.70 kW	2.80 kW
Annual energy consumption Q _{he}	4990 kWh	6189 kWh
P _{dh} Tj = -15°C (if TOL	6.87	6.81
COP Tj = -15°C (if TOL	2.61	2.13
C _{dh} Tj = -15 °C	1.000	1.000

Model S2125-12 1x230V

Model name	S2125-12 1x230V
Application	Heating (medium temp)
Units	Outdoor
Climate zone (for heating)	Colder Climate
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	6.36 kW	7.91 kW
El input	1.25 kW	2.44 kW
COP	5.10	3.25

EN 12102-1 | Average Climate

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Pdh Tj = +7°C	2.44 kW	2.68 kW

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Pdh Tj = 12°C	2.47 kW	2.40 kW
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PSB	11 W	11 W
PCK	5 W	5 W
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Supplementary Heater: PSUP	0.00 kW	0.00 kW
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$P_{dh} T_j = TOL$ or $P_{dh} T_j = T_{designh}$ if $TOL < T_{designh}$	5.67 kW	5.56 kW
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Supplementary Heater: PSUP	2.70 kW	2.80 kW
Annual energy consumption Q _{he}	4990 kWh	6189 kWh
$P_{dh} T_j = -15^{\circ}C$ (if TOL	6.87	6.81
COP $T_j = -15^{\circ}C$ (if TOL	2.61	2.13
$C_{dh} T_j = -15^{\circ}C$	1.000	1.000