

Subtype S2125-8

Certificate Holder	Nibe AB
Address	Box 14
ZIP	S-28521
City	Markaryd
Country	SE
Certification Body	RISE CERT
Subtype title	S2125-8
Registration number	012-C700114
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 S2125-8 3x400V

Model name	S2125-8 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	5.22 kW	7.02 kW
El input	1.03 kW	2.22 kW
COP	5.07	3.17

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	196 %	146 %
Prated	5.30 kW	5.30 kW
SCOP	4.99	3.73
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	4.25 kW	4.57 kW
COP Tj = -7°C	2.90	2.19
Cdh Tj = -7 °C	0.990	0.990
Pdh Tj = +2°C	3.12 kW	2.80 kW
COP Tj = +2°C	5.08	3.77
Cdh Tj = +2 °C	0.980	0.980
Pdh Tj = +7°C	2.44 kW	2.05 kW

COP Tj = +7°C	6.49	4.75
Cdh Tj = +7 °C	0.970	0.970
Pdh Tj = 12°C	2.47 kW	2.30 kW
COP Tj = 12°C	7.36	5.70
Cdh Tj = +12 °C	0.960	0.970
Pdh Tj = Tbiv	5.02 kW	4.82 kW
COP Tj = Tbiv	2.98	2.21
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.02 kW	4.82 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.98	2.21
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	2196 kWh	2939 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	161 %	123 %
Prated	5.40 kW	5.20 kW
SCOP	4.11	3.16
Tbiv	-15 °C	-15 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	3.25 kW	3.16 kW
COP Tj = -7°C	3.04	2.42
Cdh Tj = -7 °C	0.990	0.990
Pdh Tj = +2°C	1.98 kW	1.95 kW
COP Tj = +2°C	5.25	3.82
Cdh Tj = +2 °C	0.970	0.980
Pdh Tj = +7°C	2.24 kW	2.46 kW
COP Tj = +7°C	6.65	5.32
Cdh Tj = +7 °C	0.960	0.970
Pdh Tj = 12°C	2.41 kW	2.40 kW
COP Tj = 12°C	7.44	6.10
Cdh Tj = +12 °C	0.960	0.970
Pdh Tj = Tbiv	4.44 kW	4.25 kW

COP $T_j = T_{biv}$	2.80	2.20
$P_{dh} T_j = TOL$ or $P_{dh} T_j = T_{designh}$ if $TOL < T_{designh}$	3.63 kW	3.34 kW
COP $T_j = TOL$ or COP $T_j = T_{designh}$ if $TOL < T_{designh}$	2.34	1.69
$C_{dh} T_j = TOL$ or $P_{dh} T_j = T_{designh}$ 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	1.80 kW	1.90 kW
Annual energy consumption Q _{he}	3238 kWh	4055 kWh
$P_{dh} T_j = -15^{\circ}C$ (if TOL	4.44	4.25
COP $T_j = -15^{\circ}C$ (if TOL	2.80	2.20
$C_{dh} T_j = -15^{\circ}C$	0.990	0.990

Model S2125-8 1x230V

Model name	S2125-8 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	5.22 kW	7.02 kW
EI input	1.03 kW	2.22 kW
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