Subtype NIBE S2125-16

Certificate Holder	Nibe AB
Address	Box 14
ZIP	S-28521
City	Markaryd
Country	SE
Certification Body	RISE CERT
Subtype title	NIBE S2125-16
Registration number	012-C700272
Heat Pump Type	Outdoor Air/Water
Refrigerant	R290
Mass of Refrigerant	1.15 kg
Certification Date	26.06.2024
Testing basis	EN 14511:2022, EN 14825:2022, EN 12102:2022
Testing laboratory	RISE Research Institutes of Sweden

Model NIBE S2125-16 3X400V	
Model name	NIBE S2125-16 3X400V
Application	Heating (medium temp)
Units	Outdoor
Climate zone (for heating)	Colder
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	5.10 kW	4.84 kW
El input	0.92 kW	1.47 kW
COP	5.55	3.29

EN 12102-1 | Average Climate		
	Low temperature	Medium temperature
Sound power level outdoor	55 dB(A)	55 dB(A)

EN 14825 | Average Climate		
	Low temperature	Medium temperature
ηs	210 %	160 %
Prated	11.00 kW	11.00 kW
SCOP	5.34	4.08
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	9.76 kW	9.61 kW
COP Tj = -7°C	3.24	2.49
Cdh Tj = -7 °C	0.990	1.000
Pdh Tj = +2°C	5.67 kW	5.83 kW
COP Tj = +2°C	5.47	4.07
Cdh Tj = +2 °C	0.980	0.990
Pdh Tj = +7°C	5.23 kW	5.11 kW

COP Tj = +7°C	6.71	5.25
Cdh Tj = +7 °C	0.970	0.990
Pdh Tj = 12°C	5.77 kW	5.71 kW
COP Tj = 12°C	7.63	6.25
Cdh Tj = +12 °C	0.970	0.980
Pdh Tj = Tbiv	10.63 kW	10.49 kW
COP Tj = Tbiv	2.81	2.16
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.63 kW	10.49 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.81	2.16
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	1.000	1.000
WTOL	65 °C	65 °C
Poff	7 W	7 W
PTO	20 W	14 W
PSB	10 W	10 W
PCK	11 W	11 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	4264 kWh	5571 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level outdoor	55 dB(A)	55 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
ηs	176 %	141 %
Prated	13.00 kW	14.00 kW
SCOP	4.48	3.59
Tbiv	-12 °C	-11 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	7.87 kW	7.95 kW
COP Tj = -7°C	3.82	3.00
Cdh Tj = -7 °C	0.990	0.990
Pdh Tj = +2°C	5.04 kW	5.29 kW
COP Tj = +2°C	5.87	4.69
Cdh Tj = +2 °C	0.980	0.990
Pdh Tj = +7°C	5.24 kW	5.26 kW
COP Tj = +7°C	6.91	5.75
Cdh Tj = +7 °C	0.970	0.980
Pdh Tj = 12°C	5.76 kW	5.74 kW
COP Tj = 12°C	7.56	6.48
Cdh Tj = +12 °C	0.970	0.980
Pdh Tj = Tbiv	9.24 kW	9.62 kW

COP Tj = Tbiv	2.65	2.28
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.83 kW	7.79 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.23	1.74
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	1.000	1.000
WTOL	65 °C	65 °C
Poff	7 W	7 W
PTO	20 W	14 W
PSB	10 W	10 W
PCK	11 W	11 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	5.20 kW	6.20 kW
Annual energy consumption Qhe	7162 kWh	9606 kWh
Pdh Tj = -15°C (if TOL	9.46	9.36
COP Tj = -15°C (if TOL	2.67	2.15
Cdh Tj = -15 °C	0.990	1.000

Model NIBE S2125-16 1X230V	
Model name	NIBE S2125-16 1X230V
Application	Heating (medium temp)
Units	Outdoor
Climate zone (for heating)	Colder
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	5.10 kW	4.84 kW
El input	0.92 kW	1.47 kW
COP	5.55	3.29

EN 12102-1 | Average Climate		
	Low temperature	Medium temperature
Sound power level outdoor	55 dB(A)	55 dB(A)

EN 14825 | Average Climate		
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COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.81	2.16
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	1.000	1.000
WTOL	65 °C	56 °C
Poff	7 W	7 W
PTO	20 W	14 W
PSB	10 W	10 W
PCK	11 W	11 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	kW
Annual energy consumption Qhe	4264 kWh	5571 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level outdoor	55 dB(A)	55 dB(A)

EN 14825 | Colder Climate

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