

Subtype S1X56-13

Certificate Holder	Nibe AB
Address	Box 14
ZIP	S-28521
City	Markaryd
Country	SE
Certification Body	RISE CERT
Subtype title	S1X56-13
Registration number	012-C700187
Heat Pump Type	Brine/Water and Water/Water
Refrigerant	R454B
Mass of Refrigerant	1.45 kg
Certification Date	04.09.2023
Testing basis	EN 14511:2022, EN 16147:2017, EN 14825:2022, EN 12102:2017.

Model S1156-13

Model name	S1156-13
Application	Heating (medium temp)
Units	Indoor
Climate zone (for heating)	n/a
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	3x400V 50Hz
Off-peak product	No

Brine/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 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	39 dB(A)	39 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	227 %	163 %
Prated	11.00 kW	11.00 kW
SCOP	5.88	4.29
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	9.73 kW	9.73 kW
COP Tj = -7°C	5.02	3.34
Cdh Tj = -7 °C	1.000	1.000
Pdh Tj = +2°C	5.95 kW	5.98 kW
COP Tj = +2°C	5.83	4.24
Cdh Tj = +2 °C	1.000	1.000
Pdh Tj = +7°C	3.84 kW	3.81 kW
COP Tj = +7°C	6.62	5.01
Cdh Tj = +7 °C	0.990	0.990
Pdh Tj = 12°C	2.62 kW	2.54 kW
COP Tj = 12°C	6.76	5.33
Cdh Tj = +12 °C	0.990	0.990
Pdh Tj = Tbiv	11.00 kW	11.04 kW
COP Tj = Tbiv	4.79	3.09

Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	11.00 kW	11.04 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.79	3.09
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	1.000	1.000
WTOL	65 °C	65 °C
Poff	4 W	4 W
PTO	3 W	7 W
PSB	10 W	10 W
PCK	8 W	8 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	3868 kWh	5303 kWh

Water/Water

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	342 %	232 %
Prated	15.00 kW	15.00 kW
SCOP	8.75	6.01
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	13.49 kW	13.34 kW
COP Tj = -7°C	6.57	4.11
Cdh Tj = -7 °C	0.990	0.990
Pdh Tj = +2°C	8.19 kW	8.20 kW
COP Tj = +2°C	8.54	5.78
Cdh Tj = +2 °C	0.980	0.980
Pdh Tj = +7°C	5.19 kW	5.32 kW
COP Tj = +7°C	10.57	7.57
Cdh Tj = +7 °C	0.970	0.970
Pdh Tj = 12°C	3.39 kW	3.31 kW
COP Tj = 12°C	12.64	10.27
Cdh Tj = +12 °C	0.940	0.940
Pdh Tj = Tbiv	15.16 kW	15.11 kW
COP Tj = Tbiv	6.03	3.75
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	15.16 kW	15.11 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	6.03	3.75
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	1.000	1.000
WTOL	65 °C	65 °C
Poff	4 W	4 W
PTO	15 W	20 W

PSB	10 W	10 W
PCK	8 W	8 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Q _{he}	3544 kWh	5155 kWh

Model S1156-13 1x230V

Model name	S1156-13 1x230V
Application	Heating (medium temp)
Units	Indoor
Climate zone (for heating)	n/a
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	1x230V 50Hz
Off-peak product	No

Brine/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 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	39 dB(A)	39 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	227 %	163 %
Prated	11.00 kW	11.00 kW
SCOP	5.88	4.29
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	9.73 kW	9.73 kW
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Cdh Tj = +2 °C	1.000	1.000
Pdh Tj = +7°C	3.84 kW	3.81 kW
COP Tj = +7°C	6.62	5.01
Cdh Tj = +7 °C	0.990	0.990
Pdh Tj = 12°C	2.62 kW	2.54 kW
COP Tj = 12°C	6.76	5.33
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Pdh Tj = Tbiv	11.00 kW	11.04 kW
COP Tj = Tbiv	4.79	3.09

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WTOL	65 °C	65 °C
Poff	4 W	4 W
PTO	3 W	7 W
PSB	10 W	10 W
PCK	8 W	8 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	3868 kWh	5303 kWh

Water/Water

EN 14825 | Average Climate

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Cdh Tj = +7 °C	0.970	0.970
Pdh Tj = 12°C	3.39 kW	3.31 kW
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COP Tj = Tbiv	6.03	3.75
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	15.16 kW	15.11 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	6.03	3.75
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	1.000	1.000
WTOL	65 °C	65 °C
Poff	4 W	4 W
PTO	15 W	20 W

PSB	10 W	10 W
PCK	8 W	8 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Q _{he}	3544 kWh	5155 kWh

Model S1256-13 Cu/R/E

Model name	S1256-13 Cu/R/E
Application	Heating + DHW + low temp
Units	Indoor
Climate zone (for heating)	n/a
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	3x400V 50Hz
Off-peak product	No

Brine/Water

EN 16147 | Average Climate

Declared load profile	XL
Efficiency η_{DHW}	126 %
COP	3.03
Heating up time	1:30 h:min
Standby power input	47.0 W
Reference hot water temperature	50.0 °C
Mixed water at 40°C	235 l

Water/Water

EN 16147 | Average Climate

Declared load profile	XL
Efficiency η_{DHW}	146 %
COP	3.50
Heating up time	1:30 h:min
Standby power input	41.0 W
Reference hot water temperature	50.0 °C
Mixed water at 40°C	235 l

Model S1256-13 R 1x230V

Model name	S1256-13 R 1x230V
Application	Heating + DHW + low temp
Units	Indoor
Climate zone (for heating)	n/a
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	n/a
Off-peak product	n/a

Brine/Water

EN 16147 | Average Climate

Declared load profile	XL
Efficiency η_{DHW}	126 %
COP	3.03
Heating up time	1:30 h:min
Standby power input	47.0 W
Reference hot water temperature	50.0 °C
Mixed water at 40°C	235 l

Water/Water

EN 16147 | Average Climate

Declared load profile	XL
Efficiency η_{DHW}	146 %
COP	3.50
Heating up time	1:30 h:min
Standby power input	41.0 W
Reference hot water temperature	50.0 °C
Mixed water at 40°C	235 l