

## Subtype S1X56-8

Certificate Holder	Nibe AB
Address	Box 14
ZIP	S-28521
City	Markaryd
Country	SE
Certification Body	RISE CERT
Subtype title	S1X56-8
Registration number	012-C700186
Heat Pump Type	Brine/Water and Water/Water
Refrigerant	R454B
Mass of Refrigerant	1.15 kg
Certification Date	04.09.2023
Testing basis	EN 14511:2022, EN 16147:2017, EN 14825:2022, EN 12102:2017.

**Model S1156-8**

Model name	S1156-8
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	36 dB(A)	36 dB(A)

**EN 14825 | Average Climate**

	Low temperature	Medium temperature
$\eta_s$	219 %	162 %
Prated	7.50 kW	7.50 kW
SCOP	5.67	4.26
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	6.63 kW	6.63 kW
COP Tj = -7°C	4.65	3.25
Cdh Tj = -7 °C	1.000	1.000
Pdh Tj = +2°C	4.04 kW	4.04 kW
COP Tj = +2°C	5.72	4.26
Cdh Tj = +2 °C	1.000	1.000
Pdh Tj = +7°C	2.60 kW	2.60 kW
COP Tj = +7°C	6.50	5.02
Cdh Tj = +7 °C	1.000	0.990
Pdh Tj = 12°C	1.84 kW	1.79 kW
COP Tj = 12°C	6.67	5.40
Cdh Tj = +12 °C	1.000	0.990
Pdh Tj = Tbiv	7.50 kW	7.50 kW
COP Tj = Tbiv	4.37	3.03

Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.50 kW	7.50 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.37	3.03
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	1.000	1.000
WTOL	65 °C	65 °C
Poff	3 W	3 W
PTO	1 W	3 W
PSB	8 W	8 W
PCK	10 W	10 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	2732 kWh	3637 kWh

### Water/Water

EN 14825 | Average Climate

	Low temperature	Medium temperature
$\eta_s$	307 %	217 %
Prated	10.00 kW	10.00 kW
SCOP	7.87	5.63
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	8.89 kW	8.93 kW
COP Tj = -7°C	5.70	3.85
Cdh Tj = -7 °C	0.990	0.990
Pdh Tj = +2°C	5.41 kW	5.48 kW
COP Tj = +2°C	7.98	5.55
Cdh Tj = +2 °C	0.990	0.990
Pdh Tj = +7°C	3.53 kW	3.53 kW
COP Tj = +7°C	9.78	7.24
Cdh Tj = +7 °C	0.970	0.970
Pdh Tj = 12°C	2.06 kW	1.95 kW
COP Tj = 12°C	9.64	7.94
Cdh Tj = +12 °C	0.950	0.940
Pdh Tj = Tbiv	10.06 kW	9.96 kW
COP Tj = Tbiv	5.21	3.55
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.06 kW	9.96 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	5.21	3.55
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	1.000	1.000
WTOL	65 °C	65 °C
Poff	3 W	3 W
PTO	10 W	15 W

PSB	8 W	8 W
PCK	10 W	10 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	2624 kWh	3669 kWh

**Model S1156-8 PC**

Model name	S1156-8 PC
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	36 dB(A)	36 dB(A)

**EN 14825 | Average Climate**

	Low temperature	Medium temperature
$\eta_s$	219 %	162 %
Prated	7.50 kW	7.50 kW
SCOP	5.67	4.26
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	6.63 kW	6.63 kW
COP Tj = -7°C	4.65	3.25
Cdh Tj = -7 °C	1.000	1.000
Pdh Tj = +2°C	4.04 kW	4.04 kW
COP Tj = +2°C	5.72	4.26
Cdh Tj = +2 °C	1.000	1.000
Pdh Tj = +7°C	2.60 kW	2.60 kW
COP Tj = +7°C	6.50	5.02
Cdh Tj = +7 °C	1.000	0.990
Pdh Tj = 12°C	1.84 kW	1.79 kW
COP Tj = 12°C	6.67	5.40
Cdh Tj = +12 °C	1.000	0.990
Pdh Tj = Tbiv	7.50 kW	7.50 kW
COP Tj = Tbiv	4.37	3.03

Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.50 kW	7.50 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.37	3.03
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	1.000	1.000
WTOL	65 °C	65 °C
Poff	3 W	3 W
PTO	1 W	3 W
PSB	8 W	8 W
PCK	10 W	10 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	2732 kWh	3637 kWh

### Water/Water

EN 14825 | Average Climate

	Low temperature	Medium temperature
$\eta_s$	307 %	217 %
Prated	10.00 kW	10.00 kW
SCOP	7.87	5.63
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	8.89 kW	8.93 kW
COP Tj = -7°C	5.70	3.85
Cdh Tj = -7 °C	0.990	0.990
Pdh Tj = +2°C	5.41 kW	5.48 kW
COP Tj = +2°C	7.98	5.55
Cdh Tj = +2 °C	0.990	0.990
Pdh Tj = +7°C	3.53 kW	3.53 kW
COP Tj = +7°C	9.78	7.24
Cdh Tj = +7 °C	0.970	0.970
Pdh Tj = 12°C	2.06 kW	1.95 kW
COP Tj = 12°C	9.64	7.94
Cdh Tj = +12 °C	0.950	0.940
Pdh Tj = Tbiv	10.06 kW	9.96 kW
COP Tj = Tbiv	5.21	3.55
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.06 kW	9.96 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	5.21	3.55
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	1.000	1.000
WTOL	65 °C	65 °C
Poff	3 W	3 W
PTO	10 W	15 W

PSB	8 W	8 W
PCK	10 W	10 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	2624 kWh	3669 kWh

**Model S1156-8 1x230V**

Model name	S1156-8 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	36 dB(A)	36 dB(A)

**EN 14825 | Average Climate**

	Low temperature	Medium temperature
$\eta_s$	219 %	162 %
Prated	7.50 kW	7.50 kW
SCOP	5.67	4.26
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	6.63 kW	6.63 kW
COP Tj = -7°C	4.65	3.25
Cdh Tj = -7 °C	1.000	1.000
Pdh Tj = +2°C	4.04 kW	4.04 kW
COP Tj = +2°C	5.72	4.26
Cdh Tj = +2 °C	1.000	1.000
Pdh Tj = +7°C	2.60 kW	2.60 kW
COP Tj = +7°C	6.50	5.02
Cdh Tj = +7 °C	1.000	0.990
Pdh Tj = 12°C	1.84 kW	1.79 kW
COP Tj = 12°C	6.67	5.40
Cdh Tj = +12 °C	1.000	0.990
Pdh Tj = Tbiv	7.50 kW	7.50 kW
COP Tj = Tbiv	4.37	3.03

Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.50 kW	7.50 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.37	3.03
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	1.000	1.000
WTOL	65 °C	65 °C
Poff	3 W	3 W
PTO	1 W	3 W
PSB	8 W	8 W
PCK	10 W	10 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	2732 kWh	3637 kWh

### Water/Water

EN 14825 | Average Climate

	Low temperature	Medium temperature
$\eta_s$	307 %	217 %
Prated	10.00 kW	10.00 kW
SCOP	7.87	5.63
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	8.89 kW	8.93 kW
COP Tj = -7°C	5.70	3.85
Cdh Tj = -7 °C	0.990	0.990
Pdh Tj = +2°C	5.41 kW	5.48 kW
COP Tj = +2°C	7.98	5.55
Cdh Tj = +2 °C	0.990	0.990
Pdh Tj = +7°C	3.53 kW	3.53 kW
COP Tj = +7°C	9.78	7.24
Cdh Tj = +7 °C	0.970	0.970
Pdh Tj = 12°C	2.06 kW	1.95 kW
COP Tj = 12°C	9.64	7.94
Cdh Tj = +12 °C	0.950	0.940
Pdh Tj = Tbiv	10.06 kW	9.96 kW
COP Tj = Tbiv	5.21	3.55
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.06 kW	9.96 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	5.21	3.55
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	1.000	1.000
WTOL	65 °C	65 °C
Poff	3 W	3 W
PTO	10 W	15 W

PSB	8 W	8 W
PCK	10 W	10 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	2624 kWh	3669 kWh

**Model S1156-8 1x230V PC**

Model name	S1156-8 1x230V PC
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	36 dB(A)	36 dB(A)

**EN 14825 | Average Climate**

	Low temperature	Medium temperature
$\eta_s$	219 %	162 %
Prated	7.50 kW	7.50 kW
SCOP	5.67	4.26
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	6.63 kW	6.63 kW
COP Tj = -7°C	4.65	3.25
Cdh Tj = -7 °C	1.000	1.000
Pdh Tj = +2°C	4.04 kW	4.04 kW
COP Tj = +2°C	5.72	4.26
Cdh Tj = +2 °C	1.000	1.000
Pdh Tj = +7°C	2.60 kW	2.60 kW
COP Tj = +7°C	6.50	5.02
Cdh Tj = +7 °C	1.000	0.990
Pdh Tj = 12°C	1.84 kW	1.79 kW
COP Tj = 12°C	6.67	5.40
Cdh Tj = +12 °C	1.000	0.990
Pdh Tj = Tbiv	7.50 kW	7.50 kW
COP Tj = Tbiv	4.37	3.03

Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.50 kW	7.50 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.37	3.03
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	1.000	1.000
WTOL	65 °C	65 °C
Poff	3 W	3 W
PTO	1 W	3 W
PSB	8 W	8 W
PCK	10 W	10 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	2732 kWh	3637 kWh

### Water/Water

EN 14825 | Average Climate

	Low temperature	Medium temperature
$\eta_s$	307 %	217 %
Prated	10.00 kW	10.00 kW
SCOP	7.87	5.63
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	8.89 kW	8.93 kW
COP Tj = -7°C	5.70	3.85
Cdh Tj = -7 °C	0.990	0.990
Pdh Tj = +2°C	5.41 kW	5.48 kW
COP Tj = +2°C	7.98	5.55
Cdh Tj = +2 °C	0.990	0.990
Pdh Tj = +7°C	3.53 kW	3.53 kW
COP Tj = +7°C	9.78	7.24
Cdh Tj = +7 °C	0.970	0.970
Pdh Tj = 12°C	2.06 kW	1.95 kW
COP Tj = 12°C	9.64	7.94
Cdh Tj = +12 °C	0.950	0.940
Pdh Tj = Tbiv	10.06 kW	9.96 kW
COP Tj = Tbiv	5.21	3.55
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.06 kW	9.96 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	5.21	3.55
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	1.000	1.000
WTOL	65 °C	65 °C
Poff	3 W	3 W
PTO	10 W	15 W

PSB	8 W	8 W
PCK	10 W	10 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	2624 kWh	3669 kWh

**Model S1256-8 Cu/R/E**

Model name	S1256-8 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 $\eta_{DHW}$	126 %
COP	3.01
Heating up time	2:10 h:min
Standby power input	48.0 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 $\eta_{DHW}$	145 %
COP	3.48
Heating up time	2:10 h:min
Standby power input	43.0 W
Reference hot water temperature	50.0 °C
Mixed water at 40°C	235 l

**Model S1256-8 R/E PC**

Model name	S1256-8 R/E PC
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 $\eta_{DHW}$	126 %
COP	3.01
Heating up time	2:10 h:min
Standby power input	48.0 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 $\eta_{DHW}$	145 %
COP	3.48
Heating up time	2:10 h:min
Standby power input	43.0 W
Reference hot water temperature	50.0 °C
Mixed water at 40°C	235 l

**Model S1256-8 R 1x230V**

Model name	S1256-8 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	1x230V 50Hz
Off-peak product	No

**Brine/Water**

**EN 16147 | Average Climate**

Declared load profile	XL
Efficiency $\eta_{DHW}$	126 %
COP	3.01
Heating up time	2:10 h:min
Standby power input	48.0 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 $\eta_{DHW}$	145 %
COP	3.48
Heating up time	2:10 h:min
Standby power input	43.0 W
Reference hot water temperature	50.0 °C
Mixed water at 40°C	235 l

**Model S1256-8 R 1x230V PC**

Model name	S1256-8 R 1x230V PC
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	1x230V 50Hz
Off-peak product	n/a

**Brine/Water**

**EN 16147 | Average Climate**

Declared load profile	XL
Efficiency $\eta_{DHW}$	126 %
COP	3.01
Heating up time	2:10 h:min
Standby power input	48.0 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 $\eta_{DHW}$	145 %
COP	3.48
Heating up time	2:10 h:min
Standby power input	43.0 W
Reference hot water temperature	50.0 °C
Mixed water at 40°C	235 l