

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.
Testing laboratory	RISE Research Institutes of Sweden

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 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	2.85 kW	2.46 kW
EI input	0.56 kW	0.81 kW
COP	5.05	3.03

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
η_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 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	3.84 kW	3.38 kW
El input	0.54 kW	0.86 kW
COP	7.05	3.92

EN 14825 | Average Climate

	Low temperature	Medium temperature
ηs	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 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	2.85 kW	2.46 kW
EI input	0.56 kW	0.81 kW
COP	5.05	3.03

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
η_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 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	3.84 kW	3.38 kW
El input	0.54 kW	0.86 kW
COP	7.05	3.92

EN 14825 | Average Climate

	Low temperature	Medium temperature
ηs	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 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	2.85 kW	2.46 kW
EI input	0.56 kW	0.81 kW
COP	5.05	3.03

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
η_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 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	3.84 kW	3.38 kW
El input	0.54 kW	0.86 kW
COP	7.05	3.92

EN 14825 | Average Climate

	Low temperature	Medium temperature
ηs	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 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	2.85 kW	2.46 kW
EI input	0.56 kW	0.81 kW
COP	5.05	3.03

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
η_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 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	3.84 kW	3.38 kW
El input	0.54 kW	0.86 kW
COP	7.05	3.92

EN 14825 | Average Climate

	Low temperature	Medium temperature
ηs	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 η_{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

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	2.85 kW	2.46 kW
El input	0.56 kW	0.81 kW
COP	5.05	3.03

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
η_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 16147 | Average Climate

Declared load profile	XL
Efficiency ηDHW	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

EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	3.84 kW	3.38 kW
EI input	0.54 kW	0.86 kW

COP	7.05	3.92
EN 14825 Average Climate		
ηs	Low temperature	Medium temperature
Prated	307 %	217 %
SCOP	10.00 kW	10.00 kW
Tbiv	7.87	5.63
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	-10 °C	-10 °C
COP Tj = -7°C	8.89 kW	8.93 kW
Cdh Tj = -7 °C	5.70	3.85
Pdh Tj = +2°C	0.990	0.990
COP Tj = +2°C	5.41 kW	5.48 kW
Cdh Tj = +2 °C	7.98	5.55
Pdh Tj = +7°C	0.990	0.990
COP Tj = +7°C	3.53 kW	3.53 kW
Cdh Tj = +7 °C	9.78	7.24
Pdh Tj = 12°C	0.970	0.970
COP Tj = 12°C	2.06 kW	1.95 kW
Cdh Tj = +12 °C	9.64	7.94
Pdh Tj = Tbiv	0.950	0.940
COP Tj = Tbiv	10.06 kW	9.96 kW
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.21	3.55
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	10.06 kW	9.96 kW
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.21	3.55
WTOL	1.000	1.000
Poff	65 °C	65 °C
PTO	3 W	3 W
PSB	10 W	15 W
PCK	8 W	8 W
Supplementary Heater: Type of energy input	10 W	10 W
Supplementary Heater: PSUP	Electricity	Electricity
Annual energy consumption Qhe	0.00 kW	0.00 kW
	2624 kWh	3669 kWh

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 η_{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

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	2.85 kW	2.46 kW
El input	0.56 kW	0.81 kW
COP	5.05	3.03

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
η_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 16147 | Average Climate

Declared load profile	XL
Efficiency ηDHW	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

EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	3.84 kW	3.38 kW
EI input	0.54 kW	0.86 kW

COP	7.05	3.92
EN 14825 Average Climate		
	Low temperature	Medium temperature
ηs	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 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 η_{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

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	2.85 kW	2.46 kW
El input	0.56 kW	0.81 kW
COP	5.05	3.03

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
η_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 16147 | Average Climate

Declared load profile	XL
Efficiency ηDHW	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

EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	3.84 kW	3.38 kW
EI input	0.54 kW	0.86 kW

COP	7.05	3.92
EN 14825 Average Climate		
	Low temperature	Medium temperature
ηs	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
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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 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 η_{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

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	2.85 kW	2.46 kW
El input	0.56 kW	0.81 kW
COP	5.05	3.03

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
η_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
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COP Tj = 12°C	6.67	5.40
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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 16147 | Average Climate

Declared load profile	XL
Efficiency ηDHW	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

EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	3.84 kW	3.38 kW
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COP	7.05	3.92
EN 14825 Average Climate		
ηs	Low temperature	Medium temperature
Prated	307 %	217 %
SCOP	10.00 kW	10.00 kW
Tbiv	7.87	5.63
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	-10 °C	-10 °C
COP Tj = -7°C	8.89 kW	8.93 kW
Cdh Tj = -7 °C	5.70	3.85
Pdh Tj = +2°C	0.990	0.990
COP Tj = +2°C	5.41 kW	5.48 kW
Cdh Tj = +2 °C	7.98	5.55
Pdh Tj = +7°C	0.990	0.990
COP Tj = +7°C	3.53 kW	3.53 kW
Cdh Tj = +7 °C	9.78	7.24
Pdh Tj = 12°C	0.970	0.970
COP Tj = 12°C	2.06 kW	1.95 kW
Cdh Tj = +12 °C	9.64	7.94
Pdh Tj = Tbiv	0.950	0.940
COP Tj = Tbiv	10.06 kW	9.96 kW
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.21	3.55
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	10.06 kW	9.96 kW
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.21	3.55
WTOL	1.000	1.000
Poff	65 °C	65 °C
PTO	3 W	3 W
PSB	10 W	15 W
PCK	8 W	8 W
Supplementary Heater: Type of energy input	10 W	10 W
Supplementary Heater: PSUP	Electricity	Electricity
Annual energy consumption Qhe	0.00 kW	0.00 kW
	2624 kWh	3669 kWh