Subtype F1X53-4	
Certificate Holder	Nibe AB
Address	Box 14
ZIP	S-28521
City	Markaryd
Country	SE
Certification Body	RISE CERT
Subtype title	F1X53-4
Registration number	012-C700130
Heat Pump Type	Brine/Water and Water/Water
Refrigerant	R407c
Mass of Refrigerant	1.16 kg
Certification Date	12.12.2023
Testing basis	EN 14511:2013, EN 16147:2011, EN 14825:2013, EN 12102:2013.
Testing laboratory	RISE Research Institutes of Sweden

Model F1253-4

Model name	F1253-4
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 ηDHW	102 %
COP	2.55
Heating up time	2:23 h:min
Standby power input	50.0 W
Reference hot water temperature	50.0 °C
Mixed water at 40°C	245 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	3.15 kW	2.78 kW
El input	0.67 kW	0.93 kW
COP	4.72	2.99

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	42 dB(A)	42 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
ηs	202 %	150 %
Prated	4.30 kW	4.30 kW
SCOP	5.24	3.95

Tbiv	-10 °C	-9 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	3.89 kW	3.86 kW
COP Tj = -7°C	4.57	3.13
Cdh Tj = -7 °C	0.990	1.000
Pdh Tj = +2°C	2.40 kW	2.40 kW
COP Tj = +2°C	5.33	4.04
Cdh Tj = +2 °C	0.990	1.000
Pdh Tj = +7°C	1.59 kW	1.58 kW
COP Tj = +7°C	5.92	4.53
Cdh Tj = +7 °C	0.980	0.990
Pdh Tj = 12°C	1.31 kW	1.21 kW
COP Tj = 12°C	5.94	4.69
Cdh Tj = +12 °C	0.980	0.990
Pdh Tj = Tbiv	4.20 kW	3.80 kW
COP Tj = Tbiv	4.37	3.01
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.20 kW	3.78 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.37	2.95
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	1.000	1.000
WTOL	65 °C	65 °C
Poff	2 W	2 W
PTO	5 W	2 W
PSB	2 W	2 W
PCK	9 W	9 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.50 kW
Annual energy consumption Qhe	1695 kWh	2248 kWh

Water/Water EN 16147 | Average Climate	
Declared load profile	XL
Efficiency ηDHW	117 %
COP	2.93
Heating up time	2:09 h:min
Standby power input	45.0 W
Reference hot water temperature	49.0 °C
Mixed water at 40°C	240 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	4.30 kW	3.82 kW
El input	0.66 kW	1.00 kW
COP	6.49	3.83

EN 14825 | Average Climate

	Low temperature	Medium temperature
ηs	272 %	210 %
Prated	5.20 kW	5.20 kW
SCOP	7.00	5.45
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	4.70 kW	4.69 kW
COP Tj = -7°C	6.36	4.62
Cdh Tj = -7 °C	0.990	1.000
Pdh Tj = +2°C	2.89 kW	2.90 kW
COP Tj = +2°C	7.18	5.55
Cdh Tj = +2 °C	0.990	1.000
Pdh Tj = +7°C	1.89 kW	1.89 kW
COP Tj = +7°C	7.76	6.12
Cdh Tj = +7 °C	0.980	0.990
Pdh Tj = 12°C	1.76 kW	1.60 kW
COP Tj = 12°C	7.75	6.28
Cdh Tj = +12 °C	0.980	0.990
Pdh Tj = Tbiv	5.20 kW	5.05 kW
COP Tj = Tbiv	6.12	4.38
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.20 kW	5.05 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	6.12	4.38
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	1.000	1.000
WTOL	65 °C	65 °C
Poff	2 W	2 W
PTO	5 W	2 W
PSB	2 W	2 W
PCK	9 W	9 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1534 kWh	1971 kWh

Model F1153-4	
Model name	F1153-4
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	3.15 kW	2.78 kW
El input	0.67 kW	0.93 kW
COP	4.72	2.99

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	42 dB(A)	42 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
ηs	202 %	150 %
Prated	4.30 kW	4.30 kW
SCOP	5.24	3.95
Tbiv	-10 °C	-9 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	3.89 kW	3.86 kW
COP Tj = -7°C	4.57	3.13
Cdh Tj = -7 °C	0.990	1.000
Pdh Tj = +2°C	2.40 kW	2.40 kW
COP Tj = +2°C	5.33	4.04
Cdh Tj = +2 °C	0.990	1.000
Pdh Tj = +7°C	1.59 kW	1.58 kW
COP Tj = +7°C	5.92	4.53

Cdh Tj = +7 °C	0.980	0.990
Pdh Tj = 12°C	1.31 kW	1.21 kW
COP Tj = 12°C	5.94	4.69
Cdh Tj = +12 °C	0.980	0.990
Pdh Tj = Tbiv	4.20 kW	3.80 kW
COP Tj = Tbiv	4.37	3.01
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.20 kW	3.78 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.37	2.95
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	1.000	1.000
WTOL	65 °C	65 °C
Poff	2 W	2 W
PTO	5 W	2 W
PSB	2 W	2 W
PCK	9 W	9 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.50 kW
Annual energy consumption Qhe	1695 kWh	2248 kWh

Water/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	4.30 kW	3.82 kW
El input	0.66 kW	1.00 kW
COP	6.49	3.83

EN 14825 | Average Climate

	Low temperature	Medium temperature
ηs	272 %	210 %
Prated	5.20 kW	5.20 kW
SCOP	7.00	5.45
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	4.70 kW	4.69 kW
COP Tj = -7°C	6.36	4.62
Cdh Tj = -7 °C	0.990	1.000

Pdh Tj = +2°C	2.89 kW	2.90 kW
COP Tj = +2°C	7.18	5.55
Cdh Tj = +2 °C	0.990	1.000
Pdh Tj = +7°C	1.89 kW	1.89 kW
COP Tj = +7°C	7.76	6.12
Cdh Tj = +7 °C	0.980	0.990
Pdh Tj = 12°C	1.76 kW	1.60 kW
COP Tj = 12°C	7.75	6.28
Cdh Tj = +12 °C	0.980	0.990
Pdh Tj = Tbiv	5.20 kW	5.05 kW
COP Tj = Tbiv	6.12	4.38
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.20 kW	5.05 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	6.12	4.38
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	1.000	1.000
WTOL	65 °C	65 °C
Poff	2 W	2 W
PTO	5 W	2 W
PSB	2 W	2 W
PCK	9 W	9 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1534 kWh	1971 kWh

Model F1253-4 1x230V	
Model name	F1253-4 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 ηDHW	102 %
COP	2.55
Heating up time	2:23 h:min
Standby power input	50.0 W
Reference hot water temperature	50.0 °C
Mixed water at 40°C	245 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	3.15 kW	2.78 kW
El input	0.67 kW	0.93 kW
COP	4.72	2.99

EN 12102-1 | Average Climate	Low temperature	Medium temperature
Sound power level indoor	42 dB(A)	42 dB(A)

EN 14825 | Average Climate	Low temperature	Medium temperature
ηs	202 %	150 %
Prated	4.30 kW	4.30 kW
SCOP	5.24	3.95

Tbiv	-10 °C	-9 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	3.89 kW	3.86 kW
COP Tj = -7°C	4.57	3.13
Cdh Tj = -7 °C	0.990	1.000
Pdh Tj = +2°C	2.40 kW	2.40 kW
COP Tj = +2°C	5.33	4.04
Cdh Tj = +2 °C	0.990	1.000
Pdh Tj = +7°C	1.59 kW	1.58 kW
COP Tj = +7°C	5.92	4.53
Cdh Tj = +7 °C	0.980	0.990
Pdh Tj = 12°C	1.31 kW	1.21 kW
COP Tj = 12°C	5.94	4.69
Cdh Tj = +12 °C	0.980	0.990
Pdh Tj = Tbiv	4.20 kW	3.80 kW
COP Tj = Tbiv	4.37	3.01
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.20 kW	3.78 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.37	2.95
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	1.000	1.000
WTOL	65 °C	65 °C
Poff	2 W	2 W
PTO	5 W	2 W
PSB	2 W	2 W
PCK	9 W	9 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.50 kW
Annual energy consumption Qhe	1695 kWh	2248 kWh

Water/Water EN 16147 | Average Climate	
Declared load profile	XL
Efficiency ηDHW	117 %
COP	2.93
Heating up time	2:09 h:min
Standby power input	45.0 W
Reference hot water temperature	49.0 °C
Mixed water at 40°C	240 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	4.30 kW	3.82 kW
El input	0.66 kW	1.00 kW
COP	6.49	3.83

EN 14825 | Average Climate

	Low temperature	Medium temperature
ηs	272 %	210 %
Prated	5.20 kW	5.20 kW
SCOP	7.00	5.45
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	4.70 kW	4.69 kW
COP Tj = -7°C	6.36	4.62
Cdh Tj = -7 °C	0.990	1.000
Pdh Tj = +2°C	2.89 kW	2.90 kW
COP Tj = +2°C	7.18	5.55
Cdh Tj = +2 °C	0.990	1.000
Pdh Tj = +7°C	1.89 kW	1.89 kW
COP Tj = +7°C	7.76	6.12
Cdh Tj = +7 °C	0.980	0.990
Pdh Tj = 12°C	1.76 kW	1.60 kW
COP Tj = 12°C	7.75	6.28
Cdh Tj = +12 °C	0.980	0.990
Pdh Tj = Tbiv	5.20 kW	5.05 kW
COP Tj = Tbiv	6.12	4.38
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.20 kW	5.05 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	6.12	4.38
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	1.000	1.000
WTOL	65 °C	65 °C
Poff	2 W	2 W
PTO	5 W	2 W
PSB	2 W	2 W
PCK	9 W	9 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1534 kWh	1971 kWh

Model F1253-4 PC	
Model name	F1253-4 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 ηDHW	102 %
COP	2.55
Heating up time	2:23 h:min
Standby power input	61.0 W
Reference hot water temperature	50.0 °C
Mixed water at 40°C	245 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	3.15 kW	2.78 kW
El input	0.67 kW	0.93 kW
COP	4.72	2.99

EN 12102-1 | Average Climate		
	Low temperature	Medium temperature
Sound power level indoor	42 dB(A)	42 dB(A)

EN 14825 | Average Climate		
	Low temperature	Medium temperature
ηs	202 %	150 %
Prated	4.30 kW	4.30 kW
SCOP	5.24	3.95

Tbiv	-10 °C	-9 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	3.89 kW	3.86 kW
COP Tj = -7°C	4.57	3.13
Cdh Tj = -7 °C	0.990	1.000
Pdh Tj = +2°C	2.40 kW	2.40 kW
COP Tj = +2°C	5.33	4.04
Cdh Tj = +2 °C	0.990	1.000
Pdh Tj = +7°C	1.59 kW	1.58 kW
COP Tj = +7°C	5.92	4.53
Cdh Tj = +7 °C	0.980	0.990
Pdh Tj = 12°C	1.31 kW	1.21 kW
COP Tj = 12°C	5.94	4.69
Cdh Tj = +12 °C	0.980	0.990
Pdh Tj = Tbiv	4.20 kW	3.80 kW
COP Tj = Tbiv	4.37	3.01
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.20 kW	3.78 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.37	2.95
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	1.000	1.000
WTOL	65 °C	65 °C
Poff	2 W	2 W
PTO	5 W	2 W
PSB	2 W	2 W
PCK	9 W	9 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.50 kW
Annual energy consumption Qhe	1695 kWh	2248 kWh

Water/Water EN 16147 | Average Climate	
Declared load profile	XL
Efficiency ηDHW	117 %
COP	2.93
Heating up time	2:09 h:min
Standby power input	55.0 W
Reference hot water temperature	49.0 °C
Mixed water at 40°C	240 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	4.30 kW	3.82 kW
El input	0.66 kW	1.00 kW
COP	6.49	3.83

EN 14825 | Average Climate

	Low temperature	Medium temperature
ηs	272 %	210 %
Prated	5.20 kW	5.20 kW
SCOP	7.00	5.45
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	4.70 kW	4.69 kW
COP Tj = -7°C	6.36	4.62
Cdh Tj = -7 °C	0.990	1.000
Pdh Tj = +2°C	2.89 kW	2.90 kW
COP Tj = +2°C	7.18	5.55
Cdh Tj = +2 °C	0.990	1.000
Pdh Tj = +7°C	1.89 kW	1.89 kW
COP Tj = +7°C	7.76	6.12
Cdh Tj = +7 °C	0.980	0.990
Pdh Tj = 12°C	1.76 kW	1.60 kW
COP Tj = 12°C	7.75	6.28
Cdh Tj = +12 °C	0.980	0.990
Pdh Tj = Tbiv	5.20 kW	5.05 kW
COP Tj = Tbiv	6.12	4.38
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.20 kW	5.05 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	6.12	4.38
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	1.000	1.000
WTOL	65 °C	65 °C
Poff	2 W	2 W
PTO	5 W	2 W
PSB	2 W	2 W
PCK	9 W	9 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1534 kWh	1971 kWh

Model F1153-4 PC	
Model name	F1153-4 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	3.15 kW	2.78 kW
El input	0.67 kW	0.93 kW
COP	4.72	2.99

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	42 dB(A)	42 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
ηs	202 %	150 %
Prated	4.30 kW	4.30 kW
SCOP	5.24	3.95
Tbiv	-10 °C	-9 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	3.89 kW	3.86 kW
COP Tj = -7°C	4.57	3.13
Cdh Tj = -7 °C	0.990	1.000
Pdh Tj = +2°C	2.40 kW	2.40 kW
COP Tj = +2°C	5.33	4.04
Cdh Tj = +2 °C	0.990	1.000
Pdh Tj = +7°C	1.59 kW	1.58 kW
COP Tj = +7°C	5.92	4.53

Cdh Tj = +7 °C	0.980	0.990
Pdh Tj = 12°C	1.31 kW	1.21 kW
COP Tj = 12°C	5.94	4.69
Cdh Tj = +12 °C	0.980	0.990
Pdh Tj = Tbiv	4.20 kW	3.80 kW
COP Tj = Tbiv	4.37	3.01
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.20 kW	3.78 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.37	2.95
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	1.000	1.000
WTOL	65 °C	65 °C
Poff	2 W	2 W
PTO	5 W	2 W
PSB	2 W	2 W
PCK	9 W	9 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.50 kW
Annual energy consumption Qhe	1695 kWh	2248 kWh

Water/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	4.30 kW	3.82 kW
El input	0.66 kW	1.00 kW
COP	6.49	3.83

EN 14825 | Average Climate

	Low temperature	Medium temperature
ηs	272 %	210 %
Prated	5.20 kW	5.20 kW
SCOP	7.00	5.45
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	4.70 kW	4.69 kW
COP Tj = -7°C	6.36	4.62
Cdh Tj = -7 °C	0.990	1.000

Pdh Tj = +2°C	2.89 kW	2.90 kW
COP Tj = +2°C	7.18	5.55
Cdh Tj = +2 °C	0.990	1.000
Pdh Tj = +7°C	1.89 kW	1.89 kW
COP Tj = +7°C	7.76	6.12
Cdh Tj = +7 °C	0.980	0.990
Pdh Tj = 12°C	1.76 kW	1.60 kW
COP Tj = 12°C	7.75	6.28
Cdh Tj = +12 °C	0.980	0.990
Pdh Tj = Tbiv	5.20 kW	5.05 kW
COP Tj = Tbiv	6.12	4.38
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.20 kW	5.05 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	6.12	4.38
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	1.000	1.000
WTOL	65 °C	65 °C
Poff	2 W	2 W
PTO	5 W	2 W
PSB	2 W	2 W
PCK	9 W	9 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1534 kWh	1971 kWh