

This information was generated by the HP KEYMARK database on 17 Dec 2020

Summary of	F2120-12	Reg. No.	012-030
Certificate Holder			
Name	Nibe AB		
Address	Box 14	Zip	S-28521
City	Markaryd	Country	Sweden
Certification Body	RISE CERT		
Name of testing laboratory	DTI		
Subtype title	F2120-12		
Heat Pump Type	Outdoor Air/Water		
Refrigerant	R410a		
Mass Of Refrigerant	2.6 kg		

Model: F2120-12 1x230

General Data

Power supply	1x230V 50Hz
--------------	-------------

Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	3.54 kW	3.64 kW
El input	0.69 kW	1.18 kW
COP	5.12	3.08
Indoor water flow rate	0.61 m ³ /h	0.39 m ³ /h

EN 14511-4

Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed

Average Climate

This information was generated by the HP KEYMARK database on 17 Dec 2020

EN 12102-1		
	Low temperature	Medium temperature
Sound power level outdoor	53 dB(A)	53 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_s	190 %	148 %
Prated	8.00 kW	8.30 kW
SCOP	4.82	3.27
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	7.10 kW	7.30 kW
COP Tj = -7°C	3.05	2.39
Pdh Tj = +2°C	4.70 kW	4.70 kW
COP Tj = +2°C	4.57	3.85
Pdh Tj = +7°C	3.10 kW	2.90 kW
COP Tj = +7°C	5.86	4.48
Pdh Tj = 12°C	3.60 kW	3.30 kW
COP Tj = 12°C	7.22	5.30
Pdh Tj = Tbiv	7.10 kW	7.30 kW
COP Tj = Tbiv	2.95	2.28

This information was generated by the HP KEYMARK database on 17 Dec 2020

Pdh Tj = TOL	7.30 kW	7.80 kW
COP Tj = TOL	3.05	2.39
Cdh	0.99	0.99
WTOL	65 °C	65 °C
Poff	25 W	25 W
PTO	7 W	7 W
PSB	25 W	25 W
PCK	37 W	37 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.70 kW	0.50 kW
Annual energy consumption Qhe	3409 kWh	4529 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level outdoor	53 dB(A)	53 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_s	159 %	130 %
Prated	9.30 kW	9.80 kW

This information was generated by the HP KEYMARK database on 17 Dec 2020

SCOP	4.05	3.32
Tbiv	-12 °C	-12 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	5.70 kW	5.90 kW
COP Tj = -7°C	3.33	2.74
Pdh Tj = +2°C	3.40 kW	3.60 kW
COP Tj = +2°C	5.18	4.14
Pdh Tj = +7°C	2.90 kW	2.90 kW
COP Tj = +7°C	5.73	4.70
Pdh Tj = 12°C	3.30 kW	3.30 kW
COP Tj = 12°C	6.44	5.41
Pdh Tj = Tbiv	6.90 kW	7.30 kW
COP Tj = Tbiv	2.99	2.47
Pdh Tj = TOL	5.20 kW	6.00 kW
COP Tj = TOL	2.31	1.84
Cdh	0.99	0.99
WTOL	65 °C	65 °C
Poff	25 W	25 W
PTO	7 W	7 W
PSB	25 W	25 W
PCK	37 W	37 W

This information was generated by the HP KEYMARK database on 17 Dec 2020

Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	4.10 kW	3.80 kW
Annual energy consumption Qhe	5666 kWh	7239 kWh

Model: F2120-12 3x400

General Data

Power supply	3x400V 50Hz
--------------	-------------

Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	3.54 kW	3.64 kW
El input	0.69 kW	1.18 kW
COP	5.12	3.08
Indoor water flow rate	0.61 m ³ /h	0.39 m ³ /h

EN 14511-4

Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed

Average Climate

This information was generated by the HP KEYMARK database on 17 Dec 2020

EN 12102-1		
	Low temperature	Medium temperature
Sound power level outdoor	53 dB(A)	53 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_s	190 %	148 %
Prated	8.00 kW	8.30 kW
SCOP	4.82	3.27
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	7.10 kW	7.30 kW
COP Tj = -7°C	3.05	2.39
Pdh Tj = +2°C	4.70 kW	4.70 kW
COP Tj = +2°C	4.57	3.85
Pdh Tj = +7°C	3.10 kW	2.90 kW
COP Tj = +7°C	5.86	4.48
Pdh Tj = 12°C	3.60 kW	3.30 kW
COP Tj = 12°C	7.22	5.30
Pdh Tj = Tbiv	7.10 kW	7.30 kW
COP Tj = Tbiv	2.95	2.28

This information was generated by the HP KEYMARK database on 17 Dec 2020

Pdh Tj = TOL	7.30 kW	7.80 kW
COP Tj = TOL	3.05	2.39
Cdh	0.99	0.99
WTOL	65 °C	65 °C
Poff	25 W	25 W
PTO	7 W	7 W
PSB	25 W	25 W
PCK	37 W	37 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.70 kW	0.50 kW
Annual energy consumption Qhe	3409 kWh	4529 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level outdoor	53 dB(A)	53 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_s	159 %	130 %
Prated	9.30 kW	9.80 kW

This information was generated by the HP KEYMARK database on 17 Dec 2020

SCOP	4.05	3.32
Tbiv	-12 °C	-12 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	5.70 kW	5.90 kW
COP Tj = -7°C	3.33	2.74
Pdh Tj = +2°C	3.40 kW	3.60 kW
COP Tj = +2°C	5.18	4.14
Pdh Tj = +7°C	2.90 kW	2.90 kW
COP Tj = +7°C	5.73	4.70
Pdh Tj = 12°C	3.30 kW	3.30 kW
COP Tj = 12°C	6.44	5.41
Pdh Tj = Tbiv	6.90 kW	7.30 kW
COP Tj = Tbiv	2.99	2.47
Pdh Tj = TOL	5.20 kW	6.00 kW
COP Tj = TOL	2.31	1.84
Cdh	0.99	0.99
WTOL	65 °C	65 °C
Poff	25 W	25 W
PTO	7 W	7 W
PSB	25 W	25 W
PCK	37 W	37 W

This information was generated by the HP KEYMARK database on 17 Dec 2020

Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	4.10 kW	3.80 kW
Annual energy consumption Qhe	5666 kWh	7239 kWh