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

Summary of	F2120-8	Reg. No.	012-029
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	F2120-8		
Heat Pump Type	Outdoor Air/Water		
Refrigerant	R410a		
Mass Of Refrigerant	2.4 kg		

Model: F2120-8 1x230

General Data	
Power supply	1x230V 50Hz

Heating

EN 14511-2		
	Low temperature	**Medium temperature**
Heat output	3.57 kW	3.75 kW
El input	0.78 kW	1.23 kW
COP	4.57	3.05
Indoor water flow rate	0.61 m³/h	0.40 m³/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

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	189 %	147 %
Prated	5.90 kW	6.30 kW
SCOP	4.80	3.67
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.20 kW	5.50 kW
COP Tj = -7°C	3.25	2.48
Pdh Tj = +2°C	4.00 kW	4.10 kW
COP Tj = +2°C	4.91	3.80
Pdh Tj = +7°C	2.90 kW	2.90 kW
COP Tj = +7°C	5.60	4.45
Pdh Tj = 12°C	3.30 kW	3.30 kW
COP Tj = 12°C	6.40	5.26
Pdh Tj = Tbiv	5.20 kW	5.50 kW
COP Tj = Tbiv	3.25	2.48

Pdh Tj = TOL	5.30 kW	5.70 kW
COP Tj = TOL	3.12	2.34
Cdh	0.99	0.99
WTOL	65 °C	65 °C
Poff	25 W	25 W
PTO	10 W	10 W
PSB	25 W	25 W
PCK	37 W	37 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.60 kW	0.60 kW
Annual energy consumption Qhe	4182 kWh	5524 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	158 %	130 %
Prated	6.80 kW	7.40 kW

SCOP	4.02	3.32
Tbiv	-12 °C	-12 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	4.10 kW	4.50 kW
COP Tj = -7°C	3.30	2.74
Pdh Tj = +2°C	2.60 kW	2.70 kW
COP Tj = +2°C	5.20	4.10
Pdh Tj = +7°C	2.90 kW	2.90 kW
COP Tj = +7°C	5.52	4.65
Pdh Tj = 12°C	3.30 kW	3.30 kW
COP Tj = 12°C	6.25	5.31
Pdh Tj = Tbiv	5.00 kW	5.50 kW
COP Tj = Tbiv	3.00	2.50
Pdh Tj = TOL	3.80 kW	4.30 kW
COP Tj = TOL	2.30	1.85
Cdh	0.99	0.99
WTOL	65 °C	65 °C
Poff	25 W	25 W
PTO	10 W	10 W
PSB	25 W	25 W
PCK	37 W	37 W

Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	3.10 kW	3.10 kW
Annual energy consumption Qhe	4182 kWh	5524 kWh

Model: F2120-8 3x400

General Data	
Power supply	3x400V 50Hz

Heating

EN 14511-2		
	Low temperature	**Medium temperature**
Heat output	3.57 kW	3.75 kW
El input	0.78 kW	1.23 kW
COP	4.57	3.05
Indoor water flow rate	0.61 m³/h	0.40 m³/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

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	Low temperature	**Medium temperature**
Sound power level outdoor	53 dB(A)	53 dB(A)

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	Low temperature	**Medium temperature**
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COP Tj = +2°C	4.91	3.80
Pdh Tj = +7°C	2.90 kW	2.90 kW
COP Tj = +7°C	5.60	4.45
Pdh Tj = 12°C	3.30 kW	3.30 kW
COP Tj = 12°C	6.40	5.26
Pdh Tj = Tbiv	5.20 kW	5.50 kW
COP Tj = Tbiv	3.25	2.48

Pdh Tj = TOL	5.30 kW	5.70 kW
COP Tj = TOL	3.12	2.34
Cdh	0.99	0.99
WTOL	65 °C	65 °C
Poff	25 W	25 W
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Supplementary Heater: PSUP	3.10 kW	3.10 kW
Annual energy consumption Qhe	4182 kWh	5524 kWh