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#### This information was generated by the HP KEYMARK database on 7 Jul 2022

#### **Login**

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			
Subtype title	F2120-8			
Heat Pump Type	Outdoor Air/Water			
Refrigerant	R410A			
Mass of Refrigerant	2.4 kg			

## Model: F2120-8 1x230

Configure model		
Model name	F2120-8 1x230	
Application	Heating (medium temp)	
Units	Outdoor	
Climate Zone	Colder Climate	
Reversibility	No	
Cooling mode application (optional)	n/a	

General Data		
Power supply	1x230V 50Hz	

## Heating

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	

EN 14511-2		
	Low temperature	Medium temperature
Heat output	3.57 kW	3.75 kW
El input	0.78 kW	1.23 kW
СОР	4.57	3.05

#### 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
$\eta_{S}$	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



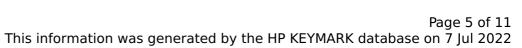


Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.80 kW	4.30 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.30	1.85
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.99	0.99
WTOL	65 °C	65 °C
Poff	25 W	25 W
РТО	10 W	10 W
PSB	25 W	25 W
PCK	37 W	37 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	3.10 kW	3.10 kW
Annual energy consumption Qhe	4182 kWh	5524 kWh

## 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
$\eta_{S}$	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
$COP Tj = -7^{\circ}C$	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
$COP Tj = +7^{\circ}C$	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 or Pdh Tj = Tdesignh if TOL < Tdesignh	5.30 kW	5.70 kW
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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



## Model: F2120-8 3x400

Configure model		
Model name	F2120-8 3x400	
Application	Heating (medium temp)	
Units	Outdoor	
Climate Zone	Colder Climate	
Reversibility	No	
Cooling mode application (optional)	n/a	

General Data		
Power supply 3x400V 50Hz		

## Heating

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	

EN 14511-2		
	Low temperature	Medium temperature
Heat output	3.57 kW	3.75 kW
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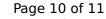


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