

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

Summary of	F1x45-8 1x230	Reg. No.	012-040
Certificate Holder			
Name	Nibe AB		
Address	Box 14	Zip	S-28521
City	Markaryd	Country	Sweden
Certification Body	RISE CERT		
Name of testing laboratory	AIT		
Subtype title	F1x45-8 1x230		
Heat Pump Type	Brine/Water		
Refrigerant	R407c		
Mass Of Refrigerant	1.7 kg		

Model: F1145-8 1x230

General Data

Power supply	1x230V 50Hz
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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

EN 14511-2

	Low temperature	Medium temperature
Heat output	8.32 kW	7.66 kW
El input	1.83 kW	2.57 kW
COP	4.55	2.98
Indoor water flow rate	1.72 m ³ /h	0.97 m ³ /h

Average Climate

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EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	45 dB(A)	45 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_s	185 %	141 %
Prated	10.00 kW	9.00 kW
SCOP	4.83	3.73
Tbiv	-5 °C	-6 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	8.20 kW	7.50 kW
COP Tj = -7°C	4.70	3.27
Pdh Tj = +2°C	8.30 kW	7.80 kW
COP Tj = +2°C	4.94	3.77
Pdh Tj = +7°C	8.30 kW	8.00 kW
COP Tj = +7°C	5.10	4.09
Pdh Tj = 12°C	8.40 kW	8.10 kW
COP Tj = 12°C	5.18	4.39
Pdh Tj = Tbiv	8.20 kW	7.60 kW
COP Tj = Tbiv	4.75	3.33

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Pdh Tj = TOL	8.10 kW	7.40 kW
COP Tj = TOL	4.57	3.07
Cdh	0.99	0.99
WTOL	65 °C	65 °C
Poff	2 W	2 W
PTO	15 W	15 W
PSB	7 W	7 W
PCK	14 W	14 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	1.90 kW	1.60 kW
Annual energy consumption Qhe	4290 kWh	4993 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	45 dB(A)	45 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_s	190 %	146 %
Prated	10.00 kW	9.00 kW

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SCOP	4.95	3.85
Tbiv	-15 °C	-16 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	8.30 kW	7.80 kW
COP Tj = -7°C	4.97	3.67
Pdh Tj = +2°C	8.40 kW	7.90 kW
COP Tj = +2°C	5.12	4.04
Pdh Tj = +7°C	8.40 kW	8.10 kW
COP Tj = +7°C	5.23	4.33
Pdh Tj = 12°C	8.40 kW	8.20 kW
COP Tj = 12°C	5.03	4.47
Pdh Tj = Tbiv	8.20 kW	7.60 kW
COP Tj = Tbiv	4.81	3.34
Pdh Tj = TOL	8.10 kW	7.40 kW
COP Tj = TOL	4.57	3.07
Cdh	0.99	0.99
WTOL	65 °C	65 °C
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PCK	14 W	14 W

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Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	1.90 kW	1.60 kW
Annual energy consumption Qhe	4981 kWh	5777 kWh

Model: F1245-8 1x230

General Data

Power supply	1x230V 50Hz
Off-peak product	No

Heating

EN 14511-4

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Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed
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Complete power supply failure	passed

EN 14511-2

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Supplementary Heater: PSUP	1.90 kW	1.60 kW
Annual energy consumption Q _{he}	4981 kWh	5777 kWh

Domestic Hot Water (DHW)

Average Climate

EN 16147	
Declared load profile	XL
Efficiency η_{DHW}	100 %
Heating up time	1:28 h:min
Standby power input	55.0 W
Reference hot water temperature	50.0 °C
Mixed water at 40°C	235 l
COP	2.51

Colder Climate

EN 16147	
Declared load profile	XL
Efficiency η_{DHW}	100 %
Heating up time	1:28 h:min
Standby power input	55.0 W
Reference hot water temperature	50.0 °C
Mixed water at 40°C	235 l
COP	2.51