

Summary of	F1x45-12 3x400	Reg. No.	012-043
Certificate Holder			
Name	Nibe AB		
Address	Box 14	Zip	S-28521
City	Markaryd	Country	Sweden
Certification Body	RISE CERT	RISE CERT	
Name of testing laboratory	AIT		
Subtype title	F1x45-12 3x400		
Heat Pump Type	Brine/Water		
Refrigerant	R407c		
Mass Of Refrigerant	2 kg		



Model: F1145-12 3x400

General Data	
Power supply	3x400V 50Hz

Heating

EN 14511-2			
	Low temperature	Medium temperature	
Heat output	11.89 kW	10.84 kW	
El input	2.70 kW	3.78 kW	
СОР	4.40	2.91	
Indoor water flow rate	2.41 m³/h	1.51 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

Average 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}	183 %	141 %
Prated	14.00 kW	14.00 kW
SCOP	4.78	3.73
Tbiv	-5 °C	-4 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	11.50 kW	10.80 kW
COP Tj = -7°C	4.70	3.30
Pdh Tj = +2°C	11.60 kW	11.10 kW
COP Tj = +2°C	4.94	3.80
Pdh Tj = +7°C	11.70 kW	11.30 kW
COP Tj = +7°C	5.10	4.10
Pdh Tj = 12°C	11.80 kW	11.50 kW
COP Tj = 12°C	5.14	4.40
Pdh Tj = Tbiv	11.50 kW	10.90 kW
COP Tj = Tbiv	4.75	3.46

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Pdh Tj = TOL	11.50 kW	10.70 kW
COP Tj = TOL	4.56	3.12
Cdh	0.99	0.99
WTOL	65 °C	65 °C
Poff	2 W	2 W
РТО	30 W	30 W
PSB	7 W	7 W
PCK	30 W	30 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	2.50 kW	3.30 kW
Annual energy consumption Qhe	6042 kWh	7785 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	
189 %	145 %	
14.00 kW	14.00 kW	
	Low temperature	





SCOP	4.93	3.83
Tbiv	-15 °C	-14 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	11.70 kW	11.00 kW
COP Tj = -7°C	4.98	3.70
Pdh Tj = $+2$ °C	11.70 kW	11.20 kW
COP Tj = +2°C	5.12	4.06
Pdh Tj = +7°C	11.80 kW	11.40 kW
COP Tj = +7°C	5.22	4.37
Pdh Tj = 12°C	11.80 kW	11.50 kW
COP Tj = 12°C	4.94	4.50
Pdh Tj = Tbiv	11.60 kW	10.90 kW
COP Tj = Tbiv	4.81	3.49
Pdh Tj = TOL	11.50 kW	10.70 kW
COP Tj = TOL	4.56	3.12
Cdh	0.99	0.99
WTOL	65 °C	65 °C
Poff	2 W	2 W
РТО	30 W	30 W
PSB	7 W	7 W
PCK	30 W	30 W
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Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	2.50 kW	3.30 kW
Annual energy consumption Qhe	6993 kWh	9049 kWh



Model: F1245-12 3x400

General Data		
Power supply	3x400V 50Hz	
Off-peak product	No	

Heating

EN 14511-2			
	Low temperature	Medium temperature	
Heat output	11.89 kW	10.84 kW	
El input	2.70 kW	3.78 kW	
СОР	4.40	2.91	
Indoor water flow rate	2.41 m³/h	1.51 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	

Average Climate



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

Low temperature 183 % 14.00 kW	Medium temperature 141 % 14.00 kW
14.00 kW	14.00 kW
	14.00 KW
4.78	3.73
-5 °C	-4 °C
-10 °C	-10 °C
11.50 kW	10.80 kW
4.70	3.30
11.60 kW	11.10 kW
4.94	3.80
11.70 kW	11.30 kW
5.10	4.10
11.80 kW	11.50 kW
5.14	4.40
11.50 kW	10.90 kW
4.75	3.46
	4.78 -5 °C -10 °C 11.50 kW 4.70 11.60 kW 4.94 11.70 kW 5.10 11.80 kW 5.14 11.50 kW

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Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	2.50 kW	3.30 kW
Annual energy consumption Qhe	6042 kWh	7785 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}	189 %	145 %
Prated	14.00 kW	14.00 kW





This information was generated by the HP KEYMARK database on 17 Dec 2020			
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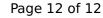
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	2.50 kW	3.30 kW
Annual energy consumption Qhe	6993 kWh	9049 kWh

Domestic Hot Water (DHW)

Average Climate

EN 16147		
Declared load profile	XL	
Efficiency ηDHW	96 %	
СОР	2.40	
Heating up time	00:58 h:min	
Standby power input	55.0 W	
Reference hot water temperature	50.0 °C	
Mixed water at 40°C	230 I	

Colder Climate





EN 16147		
Declared load profile	XL	
Efficiency ηDHW	96 %	
СОР	2.40	
Heating up time	00:58 h:min	
Standby power input	55.0 W	
Reference hot water temperature	50.0 °C	
Mixed water at 40°C	230 I	