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Summary of	F1345-40	Reg. No.	012-052
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	F1345-40		
Heat Pump Type	Brine/Water		
Refrigerant	R407c		
Mass Of Refrigerant	3.4 kg		
	1		



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Model: F1345-40

General Data		
Power supply	3x400V 50Hz	

Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	39.94 kW	37.80 kW
El input	8.90 kW	11.90 kW
СОР	4.49	3.18
Indoor water flow rate	7.92 m³/h	4.95 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

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EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	47 dB(A)	47 dB(A)

EN 14825		
	Low temperature	Medium temperature
η _s	182 %	143 %
Prated	46.00 kW	46.00 kW
SCOP	4.75	3.78
Tbiv	-7 °C	-6 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	40.10 kW	38.20 kW
COP Tj = -7°C	4.62	3.33
Pdh Tj = +2°C	40.30 kW	39.10 kW
COP Tj = +2°C	4.78	3.79
Pdh Tj = +7°C	20.30 kW	19.90 kW
COP Tj = +7°C	5.11	4.21
Pdh Tj = 12°C	20.40 kW	20.10 kW
COP Tj = 12°C	5.09	4.51
Pdh Tj = Tbiv	40.10 kW	28.40 kW
COP Tj = Tbiv	4.63	3.41

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	-	
Pdh Tj = TOL	40.00 kW	37.80 kW
COP Tj = TOL	4.50	3.19
Cdh	0.98	0.99
WTOL	65 °C	65 °C
Poff	2 W	2 W
РТО	100 W	100 W
PSB	7 W	7 W
РСК	80 W	80 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	6.00 kW	8.20 kW
Annual energy consumption Qhe	19996 kWh	25093 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	47 dB(A)	47 dB(A)

EN 14825		
	Low temperature	Medium temperature
η _s	190 %	149 %
Prated	46.00 kW	46.00 kW

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4.95 -17 °C -22 °C 40.40 kW 4.86	3.93 -16 °C -22 °C 39.00 kW 3.70
-22 °C 40.40 kW	-22 °C 39.00 kW
40.40 kW	39.00 kW
4.86	3.70
20.30 kW	19.80 kW
5.16	4.19
20.40 kW	20.00 kW
5.22	4.50
20.40 kW	20.20 kW
4.95	4.65
40.20 kW	38.40 kW
4.67	3.43
40.00 kW	37.80 kW
4.50	3.19
0.98	0.99
65 °C	65 °C
2 W	2 W
100 W	100 W
7 W	7 W
80 W	80 W
	5.16 20.40 kW 5.22 20.40 kW 4.95 40.20 kW 4.67 40.00 kW 4.67 40.00 kW 4.50 0.98 55 °C 2 W

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Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	6.00 kW	8.20 kW
Annual energy consumption Qhe	22939 kWh	28857 kWh

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