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Summary of	F1345-24	Reg. No.	012-050		
Certificate Holder	Certificate Holder				
Name	Nibe AB	Nibe AB			
Address	Box 14	Zip	S-28521		
City	Markaryd	Country	Sweden		
Certification Body	RISE CERT		·		
Name of testing laboratory	AIT	AIT			
Subtype title	F1345-24	F1345-24			
Heat Pump Type	Brine/Water	Brine/Water			
Refrigerant	R407c	R407c			
Mass Of Refrigerant	4 kg				

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Model: F1345-24

General Data		
Power supply	3x400V 50Hz	

Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	23.00 kW	22.00 kW
El input	4.90 kW	7.12 kW
СОР	4.65	3.09
Indoor water flow rate	4.83 m³/h	3.01 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}	185 %	143 %
Prated	28.00 kW	28.00 kW
SCOP	4.83	3.78
Tbiv	-6 °C	-5 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	23.60 kW	22.20 kW
COP Tj = -7°C	4.70	3.27
Pdh Tj = +2°C	23.80 kW	22.80 kW
COP Tj = +2°C	4.91	3.83
Pdh Tj = +7°C	12.00 kW	11.70 kW
COP Tj = +7°C	5.26	4.31
Pdh Tj = 12°C	12.10 kW	11.80 kW
COP Tj = 12°C	5.26	4.58
Pdh Tj = Tbiv	23.60 kW	22.40 kW
COP Tj = Tbiv	4.73	3.45

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Pdh Tj = TOL	23.50 kW	22.00 kW
COP Tj = TOL	4.57	3.10
Cdh	0.98	0.99
WTOL	65 °C	65 °C
Poff	2 W	2 W
РТО	30 W	30 W
PSB	7 W	7 W
PCK	70 W	70 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	4.50 kW	6.00 kW
Annual energy consumption Qhe	11996 kWh	15287 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	
193 %	150 %	
28.00 kW	28.00 kW	
	Low temperature	





SCOP	5.03	3.95
Tbiv	-16 °C	-15 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	23.80 kW	22.70 kW
COP Tj = -7°C	4.98	3.73
Pdh Tj = +2°C	12.00 kW	11.60 kW
$COP Tj = +2^{\circ}C$	5.28	4.26
Pdh Tj = +7°C	12.10 kW	11.80 kW
$COP Tj = +7^{\circ}C$	5.38	4.57
Pdh Tj = 12°C	12.10 kW	11.90 kW
COP Tj = 12°C	5.08	4.74
Pdh Tj = Tbiv	23.70 kW	22.40 kW
COP Tj = Tbiv	4.78	3.46
Pdh Tj = TOL	23.50 kW	22.00 kW
COP Tj = TOL	4.57	3.10
Cdh	0.98	0.99
WTOL	65 °C	65 °C
Poff	2 W	2 W
РТО	60 W	60 W
PSB	7 W	7 W
PCK	70 W	70 W



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Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	4.50 kW	6.00 kW
Annual energy consumption Qhe	13740 kWh	17514 kWh