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Summary of	F1x45-10 1x230	Reg. No.	012-042
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	F1x45-10 1x230		
Heat Pump Type	Brine/Water		
Refrigerant	R407c		
Mass Of Refrigerant	2.1 kg		



Model: F1145-10 1x230

General Data	
Power supply	1x230V 50Hz

Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	9.69 kW	7.93 kW
El input	2.07 kW	2.48 kW
СОР	4.68	3.20
Indoor water flow rate	2.07 m³/h	1.10 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}	188 %	147 %
Prated	12.00 kW	10.20 kW
SCOP	4.90	3.88
Tbiv	-5 °C	-5 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	9.80 kW	8.20 kW
COP Tj = -7°C	4.79	3.40
Pdh Tj = +2°C	10.00 kW	8.80 kW
COP Tj = +2°C	5.00	3.90
Pdh Tj = +7°C	10.20 kW	9.20 kW
COP Tj = +7°C	5.14	4.22
Pdh Tj = 12°C	10.40 kW	9.60 kW
COP Tj = 12°C	5.18	4.50
Pdh Tj = Tbiv	9.90 kW	8.30 kW
COP Tj = Tbiv	4.84	3.52

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Pdh Tj = TOL	9.70 kW	7.90 kW
COP Tj = TOL	4.68	3.21
Cdh	0.99	1.00
WTOL	65 °C	65 °C
Poff	2 W	2 W
РТО	20 W	10 W
PSB	7 W	7 W
PCK	9 W	9 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	2.30 kW	2.30 kW
Annual energy consumption Qhe	5060 kWh	5454 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}	193 %	150 %
Prated	12.00 kW	10.20 kW





SCOP	5.03	3.95
Tbiv	-15 °C	-15 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	10.10 kW	8.70 kW
COP Tj = -7°C	5.04	3.79
Pdh Tj = +2°C	10.20 kW	9.20 kW
COP Tj = +2°C	5.17	4.14
Pdh Tj = +7°C	10.30 kW	9.50 kW
$COP Tj = +7^{\circ}C$	5.22	4.43
Pdh Tj = 12°C	10.40 kW	9.80 kW
COP Tj = 12°C	5.01	4.57
Pdh Tj = Tbiv	9.90 kW	8.40 kW
COP Tj = Tbiv	4.92	3.53
Pdh Tj = TOL	9.70 kW	7.90 kW
COP Tj = TOL	4.68	3.21
Cdh	0.99	1.00
WTOL	65 °C	65 °C
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Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	2.30 kW	2.30 kW
Annual energy consumption Qhe	5901 kWh	6370 kWh



Model: F1245-10 1x230

General Data		
Power supply	1x230V 50Hz	
Off-peak product	No	

Heating

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El input	2.07 kW	2.48 kW	
СОР	4.68	3.20	
Indoor water flow rate	2.07 m³/h	1.10 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		
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η_{s}	188 %	147 %
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SCOP	4.90	3.88
Tbiv	-5 °C	-5 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	9.80 kW	8.20 kW
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Pdh Tj = +2°C	10.00 kW	8.80 kW
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Supplementary Heater: PSUP	2.30 kW	2.30 kW
Annual energy consumption Qhe	5060 kWh	5454 kWh

Colder Climate

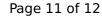
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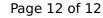
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	2.30 kW	2.30 kW
Annual energy consumption Qhe	5901 kWh	6370 kWh

Domestic Hot Water (DHW)

Average Climate

EN 16147		
Declared load profile	XL	
Efficiency ηDHW	96 %	
СОР	2.40	
Heating up time	01:10 h:min	
Standby power input	55.0 W	
Reference hot water temperature	50.0 °C	
Mixed water at 40°C	235 I	

Colder Climate





EN 16147		
Declared load profile	XL	
Efficiency ηDHW	96 %	
СОР	2.40	
Heating up time	01:10 h:min	
Standby power input	55.0 W	
Reference hot water temperature	50.0 °C	
Mixed water at 40°C	235 I	