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Login

Summary of	F1x45-17	Reg. No.	012-046	
Certificate Holder				
Name	Nibe AB			
Address	Box 14	Zip	S-28521	
City	Markaryd	Country	Sweden	
Certification Body	RISE CERT			
Subtype title	F1x45-17			
Heat Pump Type	Brine/Water			
Refrigerant	R407c			
Mass of Refrigerant	2 kg			



Model: F1145-17

Configure model		
Model name	F1145-17	
Application	Heating (medium temp)	
Units	Indoor	
Climate Zone	Colder Climate	
Reversibility	No	
Cooling mode application (optional)	n/a	

General Data		
Power supply	3x400V 50Hz	

Heating

EN 14511-2			
	Low temperature	Medium temperature	
Heat output	16.89 kW	16.10 kW	
El input	4.10 kW	5.38 kW	
СОР	4.12	2.99	

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	43 dB(A)	43 dB(A)	

EN 14825		
	Low temperature	Medium temperature
η_{s}	166 %	137 %
Prated	20.00 kW	20.00 kW
SCOP	4.35	3.62
Tbiv	-6 °C	-5 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	17.00 kW	16.00 kW
COP Tj = -7°C	4.39	3.25
Pdh Tj = +2°C	17.10 kW	16.20 kW
COP Tj = +2°C	4.50	3.70
Pdh Tj = +7°C	17.30 kW	16.60 kW
COP Tj = +7°C	4.55	3.95
Pdh Tj = 12°C	17.40 kW	16.90 kW
COP Tj = 12°C	4.34	4.16
Pdh Tj = Tbiv	17.00 kW	16.10 kW
COP Tj = Tbiv	4.41	3.35

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Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	16.90 kW	16.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.29	3.08
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.97	0.99
WTOL	65 °C	65 °C
Poff	2 W	2 W
PTO	100 W	100 W
PSB	7 W	7 W
PCK	35 W	35 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	3.10 kW	4.00 kW
Annual energy consumption Qhe	9474 kWh	11407 kWh

Colder Climate

EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	43 dB(A)	43 dB(A)	

EN 14825			
Low temperature Medium temperatur			
η_{S}	171 %	140 %	
Prated	20.00 kW	20.00 kW	
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		The database of 10 Mai 2022
SCOP	4.47	3.70
Tbiv	-16 °C	-15 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	17.20 kW	16.10 kW
COP Tj = -7°C	4.56	3.62
Pdh Tj = +2°C	17.30 kW	16.50 kW
COP Tj = +2°C	4.58	3.89
Pdh Tj = +7°C	17.40 kW	16.80 kW
$COP Tj = +7^{\circ}C$	4.52	4.12
Pdh Tj = 12°C	17.40 kW	17.00 kW
COP Tj = 12°C	4.06	4.22
Pdh Tj = Tbiv	17.00 kW	16.10 kW
COP Tj = Tbiv	4.45	3.37
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	16.90 kW	16.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.29	3.08
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.97	0.99
WTOL	65 °C	65 °C
Poff	2 W	2 W
РТО	100 W	100 W
PSB	7 W	7 W
PCK	35 W	35 W



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Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	3.10 kW	4.00 kW
Annual energy consumption Qhe	11047 kWh	13300 kWh