

Page 1 of 6 This information was generated by the HP KEYMARK database on 17 Dec 2020

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	RISE CERT	
Name of testing laboratory	AIT		
Subtype title	F1x45-17		
Heat Pump Type	Brine/Water	Brine/Water	
Refrigerant	R407c	R407c	
Mass Of Refrigerant	2 kg	2 kg	



Model: F1145-17

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
Indoor water flow rate	3.44 m³/h	2.15 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



This information was generated by the HP KEYMARK database on 17 Dec 2020

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

EHPA Secretariat | Rue dArlon 63-67 | Phone: +32 2 400 10 17 | Email: secretariat@heatpumpkeymark.com | www.heatpumpkeymark.com





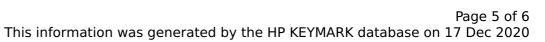
This information was generated by the HP KEYMARK database on 17 Dec 2020

Pdh Tj = TOL	16.90 kW	16.00 kW
COP Tj = TOL	4.29	3.08
Cdh	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
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 temperature
η_{s}	171 %	140 %
Prated	20.00 kW	20.00 kW





	· · · · · · · · · · · · · · · · · · ·	THE GOLD ASSESTED TO THE SECTION OF
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	16.90 kW	16.00 kW
COP Tj = TOL	4.29	3.08
Cdh	0.97	0.99
WTOL	65 °C	65 °C
Poff	2 W	2 W
РТО	100 W	100 W
PSB	7 W	7 W
РСК	35 W	35 W



$$\operatorname{\textit{Page}}\xspace$ 6 of 6 This information was generated by the HP KEYMARK database on 17 Dec 2020

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