

Summary of	F1x45-6	Reg. No.	012-038
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	F1x45-6		
Heat Pump Type	Brine/Water		
Refrigerant	R407c		
Mass Of Refrigerant	1.5 kg		



Model: F1145-6 3x400

General Data	
Power supply	3x400V 50Hz

Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	6.10 kW	4.56 kW
El input	1.35 kW	1.50 kW
СОР	4.52	3.04
Indoor water flow rate	1.21 m³/h	0.65 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	43 dB(A)	43 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_{s}	184 %	137 %
Prated	7.00 kW	6.00 kW
SCOP	4.80	3.63
Tbiv	-7 °C	-5 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	6.20 kW	4.80 kW
COP Tj = -7°C	4.71	3.18
Pdh Tj = +2°C	6.30 kW	5.30 kW
COP Tj = +2°C	4.91	3.69
Pdh Tj = +7°C	6.50 kW	5.60 kW
COP Tj = +7°C	5.09	4.02
Pdh Tj = 12°C	6.70 kW	6.00 kW
COP Tj = 12°C	5.14	4.29
Pdh Tj = Tbiv	6.20 kW	4.90 kW
COP Tj = Tbiv	4.71	3.30

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





	<u> </u>	
Pdh Tj = TOL	6.10 kW	4.50 kW
COP Tj = TOL	4.59	2.96
Cdh	0.99	0.99
WTOL	65 °C	65 °C
Poff	1 W	2 W
РТО	12 W	10 W
PSB	7 W	7 W
PCK	14 W	14 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.90 kW	1.50 kW
Annual energy consumption Qhe	3010 kWh	3425 kWh

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}	190 %	141 %
Prated	7.00 kW	6.00 kW





SCOP	4.95	3.73
Tbiv	-18 °C	-15 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	6.40 kW	5.20 kW
COP Tj = -7°C	4.96	3.58
Pdh Tj = +2°C	6.50 kW	5.60 kW
COP Tj = +2°C	5.10	3.96
Pdh Tj = +7°C	6.60 kW	5.90 kW
COP Tj = +7°C	5.18	4.25
Pdh Tj = 12°C	6.60 kW	6.10 kW
COP Tj = 12°C	4.97	4.33
Pdh Tj = Tbiv	6.20 kW	4.90 kW
COP Tj = Tbiv	4.75	3.32
Pdh Tj = TOL	6.10 kW	4.50 kW
COP Tj = TOL	4.59	2.96
Cdh	0.99	0.99
WTOL	65 °C	65 °C
Poff	2 W	2 W
РТО	12 W	10 W
PSB	7 W	7 W
PCK	14 W	14 W



Page 6 of 23

Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.90 kW	1.50 kW
Annual energy consumption Qhe	3487 kWh	3969 kWh



Model: F1145-6 PC 3x400

General Data	
Power supply	3x400V 50Hz

Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	6.10 kW	4.56 kW
El input	1.35 kW	1.50 kW
СОР	4.52	3.04
Indoor water flow rate	1.21 m³/h	0.65 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	43 dB(A)	43 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_{s}	184 %	137 %
Prated	7.00 kW	6.00 kW
SCOP	4.80	3.63
Tbiv	-7 °C	-5 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	6.20 kW	4.80 kW
COP Tj = -7°C	4.71	3.18
Pdh Tj = +2°C	6.30 kW	5.30 kW
COP Tj = +2°C	4.91	3.69
Pdh Tj = +7°C	6.50 kW	5.60 kW
COP Tj = +7°C	5.09	4.02
Pdh Tj = 12°C	6.70 kW	6.00 kW
COP Tj = 12°C	5.14	4.29
Pdh Tj = Tbiv	6.20 kW	4.90 kW
COP Tj = Tbiv	4.71	3.30

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





Pdh Tj = TOL	6.10 kW	4.50 kW
COP Tj = TOL	4.59	2.96
Cdh	0.99	0.99
WTOL	65 °C	65 °C
Poff	1 W	2 W
РТО	12 W	10 W
PSB	7 W	7 W
PCK	14 W	14 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.90 kW	1.50 kW
Annual energy consumption Qhe	3010 kWh	3425 kWh

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

	EN 14825		
Low temperature	Medium temperature		
190 %	141 %		
7.00 kW	6.00 kW		
	190 %		





SCOP	4.95	3.73
Tbiv	-18 °C	-15 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	6.40 kW	5.20 kW
COP Tj = -7°C	4.96	3.58
Pdh Tj = +2°C	6.50 kW	5.60 kW
COP Tj = +2°C	5.10	3.96
Pdh Tj = +7°C	6.60 kW	5.90 kW
COP Tj = +7°C	5.18	4.25
Pdh Tj = 12°C	6.60 kW	6.10 kW
COP Tj = 12°C	4.97	4.33
Pdh Tj = Tbiv	6.20 kW	4.90 kW
COP Tj = Tbiv	4.75	3.32
Pdh Tj = TOL	6.10 kW	4.50 kW
COP Tj = TOL	4.59	2.96
Cdh	0.99	0.99
WTOL	65 °C	65 °C
Poff	2 W	2 W
РТО	12 W	10 W
PSB	7 W	7 W
PCK	14 W	14 W



$$\operatorname{\textit{Page}}\ 11$ of 23$$ This information was generated by the HP KEYMARK database on 17 Dec 2020

Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.90 kW	1.50 kW
Annual energy consumption Qhe	3487 kWh	3969 kWh



Model: F1245-6 3x400

General Data	
Power supply	3x400V 50Hz
Off-peak product	No

Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	6.10 kW	4.56 kW
El input	1.35 kW	1.50 kW
СОР	4.52	3.04
Indoor water flow rate	1.21 m³/h	0.65 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

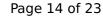
Average Climate



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

EN 14825		
	Low temperature	Medium temperature
η_{s}	184 %	137 %
Prated	7.00 kW	6.00 kW
SCOP	4.80	3.63
Tbiv	-7 °C	-5 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	6.20 kW	4.80 kW
COP Tj = -7°C	4.71	3.18
Pdh Tj = +2°C	6.30 kW	5.30 kW
COP Tj = +2°C	4.91	3.69
Pdh Tj = +7°C	6.50 kW	5.60 kW
COP Tj = +7°C	5.09	4.02
Pdh Tj = 12°C	6.70 kW	6.00 kW
COP Tj = 12°C	5.14	4.29
Pdh Tj = Tbiv	6.20 kW	4.90 kW
COP Tj = Tbiv	4.71	3.30

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





	-	
Pdh Tj = TOL	6.10 kW	4.50 kW
COP Tj = TOL	4.59	2.96
Cdh	0.99	0.99
WTOL	65 °C	65 °C
Poff	1 W	2 W
РТО	12 W	10 W
PSB	7 W	7 W
PCK	14 W	14 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.90 kW	1.50 kW
Annual energy consumption Qhe	3010 kWh	3425 kWh

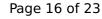
EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_{S}	190 %	141 %
Prated	7.00 kW	6.00 kW
	·	





I his information was ge	nerated by the HP KEYM	ARK database on 17 Dec 2020
SCOP	4.95	3.73
Tbiv	-18 °C	-15 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	6.40 kW	5.20 kW
COP Tj = -7°C	4.96	3.58
Pdh Tj = +2°C	6.50 kW	5.60 kW
COP Tj = +2°C	5.10	3.96
Pdh Tj = $+7^{\circ}$ C	6.60 kW	5.90 kW
$COP Tj = +7^{\circ}C$	5.18	4.25
Pdh Tj = 12°C	6.60 kW	6.10 kW
COP Tj = 12°C	4.97	4.33
Pdh Tj = Tbiv	6.20 kW	4.90 kW
COP Tj = Tbiv	4.75	3.32
Pdh Tj = TOL	6.10 kW	4.50 kW
COP Tj = TOL	4.59	2.96
Cdh	0.99	0.99
WTOL	65 °C	65 °C
Poff	2 W	2 W
РТО	12 W	10 W
PSB	7 W	7 W
PCK	14 W	14 W
	1	



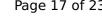


Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.90 kW	1.50 kW
Annual energy consumption Qhe	3487 kWh	3969 kWh

Domestic Hot Water (DHW)

Average Climate

EN 16147		
Declared load profile	XL	
Efficiency ηDHW	98 %	
СОР	2.45	
Heating up time	2:45 h:min	
Standby power input	55.0 W	
Reference hot water temperature	50.0 °C	
Mixed water at 40°C	240	





 $$\operatorname{\textit{Page}}\ 17$$ of 23 This information was generated by the HP KEYMARK database on 17 Dec 2020

EN 16147	
Declared load profile	XL
Efficiency ηDHW	98 %
СОР	2.45
Heating up time	2:45 h:min
Standby power input	55.0 W
Reference hot water temperature	50.0 °C
Mixed water at 40°C	240 I



Model: F1245-6 PC 3x400

General Data	
Power supply	3x400V 50Hz
Off-peak product	No

Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	6.10 kW	4.56 kW
El input	1.35 kW	1.50 kW
СОР	4.52	3.04
Indoor water flow rate	1.21 m³/h	0.65 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	43 dB(A)	43 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_{s}	184 %	137 %
Prated	7.00 kW	6.00 kW
SCOP	4.80	3.63
Tbiv	-7 °C	-5 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	6.20 kW	4.80 kW
COP Tj = -7°C	4.71	3.18
Pdh Tj = +2°C	6.30 kW	5.30 kW
COP Tj = +2°C	4.91	3.69
Pdh Tj = +7°C	6.50 kW	5.60 kW
COP Tj = +7°C	5.09	4.02
Pdh Tj = 12°C	6.70 kW	6.00 kW
COP Tj = 12°C	5.14	4.29
Pdh Tj = Tbiv	6.20 kW	4.90 kW
COP Tj = Tbiv	4.71	3.30

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





 $$\operatorname{\textit{Page}}\xspace$ 20 of 23 This information was generated by the HP KEYMARK database on 17 Dec 2020

Pdh Tj = TOL	6.10 kW	4.50 kW
COP Tj = TOL	4.59	2.96
Cdh	0.99	0.99
WTOL	65 °C	65 °C
Poff	1 W	2 W
РТО	12 W	10 W
PSB	7 W	7 W
PCK	14 W	14 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.90 kW	1.50 kW
Annual energy consumption Qhe	3010 kWh	3425 kWh

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

Low temperature	Medium temperature
190 %	141 %
7.00 kW	6.00 kW
_	190 %





This information was generated by the HP KEYMARK database on 17 Dec 2020			
SCOP	4.95	3.73	
Tbiv	-18 °C	-15 °C	
TOL	-22 °C	-22 °C	
Pdh Tj = -7°C	6.40 kW	5.20 kW	
COP Tj = -7°C	4.96	3.58	
Pdh Tj = +2°C	6.50 kW	5.60 kW	
COP Tj = +2°C	5.10	3.96	
Pdh Tj = $+7^{\circ}$ C	6.60 kW	5.90 kW	
$COPTj = +7^{\circ}C$	5.18	4.25	
Pdh Tj = 12°C	6.60 kW	6.10 kW	
COP Tj = 12°C	4.97	4.33	
Pdh Tj = Tbiv	6.20 kW	4.90 kW	
COP Tj = Tbiv	4.75	3.32	
Pdh Tj = TOL	6.10 kW	4.50 kW	
COP Tj = TOL	4.59	2.96	
Cdh	0.99	0.99	
WTOL	65 °C	65 °C	
Poff	2 W	2 W	
РТО	12 W	10 W	
PSB	7 W	7 W	
PCK	14 W	14 W	



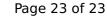


Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.90 kW	1.50 kW
Annual energy consumption Qhe	3487 kWh	3969 kWh

Domestic Hot Water (DHW)

Average Climate

EN 16147		
Declared load profile	XL	
Efficiency ηDHW	98 %	
СОР	2.45	
Heating up time	2:45 h:min	
Standby power input	55.0 W	
Reference hot water temperature	50.0 °C	
Mixed water at 40°C	240 I	





EN 16147		
Declared load profile	XL	
Efficiency ηDHW	98 %	
СОР	2.45	
Heating up time	2:45 h:min	
Standby power input	55.0 W	
Reference hot water temperature	50.0 °C	
Mixed water at 40°C	240 I	