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Login

Summary of	F1x45-8 1x230	Reg. No.	012-040
Certificate Holder	Certificate Holder		
Name	Nibe AB		
Address	Box 14	Zip	S-28521
City	Markaryd	Country	Sweden
Certification Body	RISE CERT	·	
Subtype title	F1x45-8 1x230		
Heat Pump Type	Brine/Water		
Refrigerant	R407c	R407c	
Mass of Refrigerant	1.7 kg		



Model: F1145-8 1x230

Configure model		
Model name	F1145-8 1x230	
Application	Heating (medium temp)	
Units	Indoor	
Climate Zone	Colder Climate	
Reversibility	No	
Cooling mode application (optional)	n/a	

General Data		
Power supply	1x230V 50Hz	

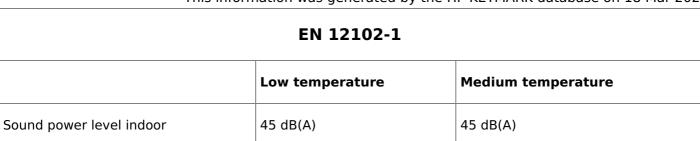
Heating

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

EN 14511-2		
Low temperature Medium temperature		Medium temperature
Heat output	8.32 kW	7.66 kW
El input	1.83 kW	2.57 kW
СОР	4.55	2.98

Average Climate





CEN heat pump

EN 14825		
	Low temperature	Medium temperature
η_{s}	185 %	141 %
Prated	10.00 kW	9.00 kW
SCOP	4.83	3.73
Tbiv	-5 °C	-6 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	8.20 kW	7.50 kW
COP Tj = -7°C	4.70	3.27
Pdh Tj = $+2$ °C	8.30 kW	7.80 kW
COP Tj = +2°C	4.94	3.77
Pdh Tj = $+7^{\circ}$ C	8.30 kW	8.00 kW
$COP Tj = +7^{\circ}C$	5.10	4.09
Pdh Tj = 12°C	8.40 kW	8.10 kW
COP Tj = 12°C	5.18	4.39
Pdh Tj = Tbiv	8.20 kW	7.60 kW
COP Tj = Tbiv	4.75	3.33

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Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.10 kW	7.40 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.57	3.07
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.99	0.99
WTOL	65 °C	65 °C
Poff	2 W	2 W
РТО	15 W	15 W
PSB	7 W	7 W
PCK	14 W	14 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.90 kW	1.60 kW
Annual energy consumption Qhe	4290 kWh	4993 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}	190 %	146 %
Prated	10.00 kW	9.00 kW
	·	





SCOP	4.95	3.85
Tbiv	-15 °C	-16 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	8.30 kW	7.80 kW
COP Tj = -7°C	4.97	3.67
Pdh Tj = +2°C	8.40 kW	7.90 kW
COP Tj = +2°C	5.12	4.04
Pdh Tj = +7°C	8.40 kW	8.10 kW
$COP Tj = +7^{\circ}C$	5.23	4.33
Pdh Tj = 12°C	8.40 kW	8.20 kW
COP Tj = 12°C	5.03	4.47
Pdh Tj = Tbiv	8.20 kW	7.60 kW
COP Tj = Tbiv	4.81	3.34
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.10 kW	7.40 kW
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Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.90 kW	1.60 kW
Annual energy consumption Qhe	4981 kWh	5777 kWh



Model: F1245-8 1x230

Configure model		
Model name	F1245-8 1x230	
Application	Heating + DHW + low temp	
Units	Indoor	
Climate Zone	Colder Climate	
Reversibility	No	
Cooling mode application (optional)	n/a	

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

Heating

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	

EN 14511-2		
	Low temperature	Medium temperature
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СОР	4.55	2.98

Average Climate



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Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.90 kW	1.60 kW
Annual energy consumption Qhe	4981 kWh	5777 kWh

Domestic Hot Water (DHW)

Average Climate

EN 16147		
Declared load profile	XL	
Efficiency ηDHW	100 %	
Heating up time	1:28 h:min	
Standby power input	55.0 W	
Reference hot water temperature	50.0 °C	
Mixed water at 40°C	235 I	
СОР	2.51	

Colder Climate



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EN 16147		
Declared load profile	XL	
Efficiency ηDHW	100 %	
Heating up time	1:28 h:min	
Standby power input	55.0 W	
Reference hot water temperature	50.0 °C	
Mixed water at 40°C	235 I	
СОР	2.51	