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This information was generated by the HP KEYMARK database on 7 Jul 2022

Login

Summary of	F1x45-8 1x230	Reg. No.	012-040	
Certificate Holder				
Name	Nibe AB			
Address	Box 14	Zip	S-28521	
City	Markaryd	Country	Sweden	
Certification Body	RISE CERT	·		
Subtype title	F1x45-8 1x230	F1x45-8 1x230		
Heat Pump Type	Brine/Water	Brine/Water		
Refrigerant	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	
Heat output	8.32 kW	7.66 kW	
El input	1.83 kW	2.57 kW	
СОР	4.55	2.98	

Colder Climate



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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	
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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	4981 kWh	5777 kWh

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}	185 %	141 %	
Prated	10.00 kW	9.00 kW	





SCOP	4.83	3.73
SCOP	4.63	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
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
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PCK	14 W	14 W



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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	4290 kWh	4993 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		
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	

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

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
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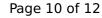


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COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.57	3.07
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WTOL	65 °C	65 °C
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Supplementary Heater: Type of energy input	Electricity	Electricity
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Annual energy consumption Qhe	4981 kWh	5777 kWh

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Prated	10.00 kW	9.00 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	4290 kWh	4993 kWh

Domestic Hot Water (DHW)

Colder Climate

EN 16147		
Declared load profile	XL	
Efficiency ηDHW	100 %	
СОР	2.51	
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	

Average Climate



EN 16147	
Declared load profile	XL
Efficiency ηDHW	100 %
СОР	2.51
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