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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		
Heat Pump Type	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
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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
COP	4.55	2.98

Average Climate

This information was generated by the HP KEYMARK database on 18 Mar 2022

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
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°C	8.30 kW	8.00 kW
COP Tj = +7°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

This information was generated by the HP KEYMARK database on 18 Mar 2022

$P_{dh} T_j = TOL$ or $P_{dh} T_j = T_{designh}$ if $TOL < T_{designh}$	8.10 kW	7.40 kW
$COP T_j = TOL$ or $COP T_j = T_{designh}$ if $TOL < T_{designh}$	4.57	3.07
$C_{dh} T_j = TOL$ or $P_{dh} T_j = T_{designh}$ if $TOL < T_{designh}$	0.99	0.99
WTOL	65 °C	65 °C
Poff	2 W	2 W
PTO	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 Q_{he}	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

This information was generated by the HP KEYMARK database on 18 Mar 2022

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°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
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
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PCK	14 W	14 W

This information was generated by the HP KEYMARK database on 18 Mar 2022

Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.90 kW	1.60 kW
Annual energy consumption Q _{he}	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	
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Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed
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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
COP	4.55	2.98

Average Climate

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EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	45 dB(A)	45 dB(A)

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	Low temperature	Medium temperature
η_s	185 %	141 %
Prated	10.00 kW	9.00 kW
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Annual energy consumption Q_{he}	4290 kWh	4993 kWh

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Sound power level indoor	45 dB(A)	45 dB(A)

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	Low temperature	Medium temperature
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Prated	10.00 kW	9.00 kW

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Domestic Hot Water (DHW)

Average Climate

EN 16147	
Declared load profile	XL
Efficiency η_{DHW}	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 l
COP	2.51

Colder Climate

EN 16147	
Declared load profile	XL
Efficiency η_{DHW}	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 l
COP	2.51