

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

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Summary of	F1345-30	Reg. No.	012-051
Certificate Holder			
Name	Nibe AB		
Address	Box 14	Zip	S-28521
City	Markaryd	Country	Sweden
Certification Body	RISE CERT		
Subtype title	F1345-30		
Heat Pump Type	Brine/Water		
Refrigerant	R407c		
Mass of Refrigerant	4 kg		

Model: F1345-30

Configure model	
Model name	F1345-30
Application	Heating (medium temp)
Units	Indoor
Climate Zone	Colder Climate
Reversibility	No
Cooling mode application (optional)	n/a

General Data	
Power supply	3x400V 50Hz

Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	30.72 kW	29.40 kW
El input	6.92 kW	10.20 kW
COP	4.44	2.90

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

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EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	47 dB(A)	47 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	178 %	137 %
Prated	35.00 kW	35.00 kW
SCOP	4.65	3.63
Tbiv	-7 °C	-6 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	30.80 kW	29.50 kW
COP Tj = -7°C	4.51	3.15
Pdh Tj = +2°C	30.90 kW	30.20 kW
COP Tj = +2°C	4.69	3.64
Pdh Tj = +7°C	15.60 kW	15.30 kW
COP Tj = +7°C	5.02	4.09
Pdh Tj = 12°C	15.60 kW	15.40 kW
COP Tj = 12°C	5.01	4.40
Pdh Tj = Tbiv	30.80 kW	29.60 kW
COP Tj = Tbiv	4.51	3.23

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$P_{dh} T_j = TOL$ or $P_{dh} T_j = T_{designh}$ if $TOL < T_{designh}$	30.80 kW	29.30 kW
$COP T_j = TOL$ or $COP T_j = T_{designh}$ if $TOL < T_{designh}$	4.38	2.99
$C_{dh} T_j = TOL$ or $P_{dh} T_j = T_{designh}$ if $TOL < T_{designh}$	0.98	0.99
WTOL	65 °C	65 °C
Poff	2 W	2 W
PTO	80 W	80 W
PSB	7 W	7 W
PCK	70 W	70 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	4.20 kW	5.70 kW
Annual energy consumption Q_{he}	15539 kWh	19880 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	47 dB(A)	47 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_s	186 %	144 %
Prated	35.00 kW	35.00 kW

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SCOP	4.85	3.80
Tbiv	-18 °C	-16 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	31.00 kW	30.10 kW
COP Tj = -7°C	4.75	3.55
Pdh Tj = +2°C	15.60 kW	15.30 kW
COP Tj = +2°C	5.06	4.04
Pdh Tj = +7°C	15.60 kW	15.40 kW
COP Tj = +7°C	5.14	4.39
Pdh Tj = 12°C	15.60 kW	15.50 kW
COP Tj = 12°C	4.86	4.55
Pdh Tj = Tbiv	30.80 kW	29.60 kW
COP Tj = Tbiv	4.55	3.24
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	30.80 kW	19.30 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.38	2.99
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.98	0.99
WTOL	65 °C	65 °C
Poff	2 W	2 W
PTO	60 W	60 W
PSB	7 W	7 W
PCK	70 W	70 W

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Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	4.20 kW	5.70 kW
Annual energy consumption Q _{he}	17817 kWh	22770 kWh