

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

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Summary of	F1345-40	Reg. No.	012-052
Certificate Holder			
Name	Nibe AB		
Address	Box 14	Zip	S-28521
City	Markaryd	Country	Sweden
Certification Body	RISE CERT		
Subtype title	F1345-40		
Heat Pump Type	Brine/Water		
Refrigerant	R407c		
Mass of Refrigerant	3.4 kg		

Model: F1345-40

Configure model	
Model name	F1345-40
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	39.94 kW	37.80 kW
El input	8.90 kW	11.90 kW
COP	4.49	3.18

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	182 %	143 %
Prated	46.00 kW	46.00 kW
SCOP	4.75	3.78
Tbiv	-7 °C	-6 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	40.10 kW	38.20 kW
COP Tj = -7°C	4.62	3.33
Pdh Tj = +2°C	40.30 kW	39.10 kW
COP Tj = +2°C	4.78	3.79
Pdh Tj = +7°C	20.30 kW	19.90 kW
COP Tj = +7°C	5.11	4.21
Pdh Tj = 12°C	20.40 kW	20.10 kW
COP Tj = 12°C	5.09	4.51
Pdh Tj = Tbiv	40.10 kW	28.40 kW
COP Tj = Tbiv	4.63	3.41

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$P_{dh} T_j = TOL$ or $P_{dh} T_j = T_{designh}$ if $TOL < T_{designh}$	40.00 kW	37.80 kW
$COP T_j = TOL$ or $COP T_j = T_{designh}$ if $TOL < T_{designh}$	4.50	3.19
$C_{dh} T_j = TOL$ 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	100 W	100 W
PSB	7 W	7 W
PCK	80 W	80 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	6.00 kW	8.20 kW
Annual energy consumption Q_{he}	19996 kWh	25093 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	190 %	149 %
Prated	46.00 kW	46.00 kW

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SCOP	4.95	3.93
Tbiv	-17 °C	-16 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	40.40 kW	39.00 kW
COP Tj = -7°C	4.86	3.70
Pdh Tj = +2°C	20.30 kW	19.80 kW
COP Tj = +2°C	5.16	4.19
Pdh Tj = +7°C	20.40 kW	20.00 kW
COP Tj = +7°C	5.22	4.50
Pdh Tj = 12°C	20.40 kW	20.20 kW
COP Tj = 12°C	4.95	4.65
Pdh Tj = Tbiv	40.20 kW	38.40 kW
COP Tj = Tbiv	4.67	3.43
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	40.00 kW	37.80 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.50	3.19
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	100 W	100 W
PSB	7 W	7 W
PCK	80 W	80 W

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Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	6.00 kW	8.20 kW
Annual energy consumption Q _{he}	22939 kWh	28857 kWh