

This information was generated by the HP KEYMARK database on 7 Jul 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 14511-4 | |
|--|--------|
| 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 | 39.94 kW | 37.80 kW |
| El input | 8.90 kW | 11.90 kW |
| COP | 4.49 | 3.18 |

Colder 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 | 190 % | 149 % |
| Prated | 46.00 kW | 46.00 kW |
| 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 |

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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} | 22939 kWh | 28857 kWh |

Average 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 | 182 % | 143 % |
| Prated | 46.00 kW | 46.00 kW |

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| | | |
|---|----------|----------|
| 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 |
| 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} | 19996 kWh | 25093 kWh |