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NIBE

NIBE F1345-24

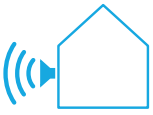


| | 55 °C | 35 °C |
|---|---|---|
| | A++ | A+++ |

A+++
A++
A+
A
B
C
D



47 dB



dB

| | 55 °C | 35 °C |
|---|---|---|
| | 28 | 28 |
| | **28** | **28** |
| | 28 | 28 |
| | kW | kW |



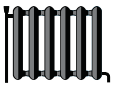
2019

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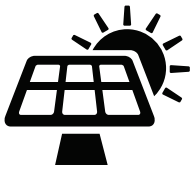
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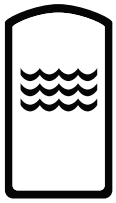
# NIBE F1345-24





A++

+  ☐

+  ☐

+  ☑

+  ☐




2015

811/2013

| | | | |
|---|---|---|---|
| Supplier's name: | NIBE | | |
| Model: | NIBE F1345-24 | | |
| Temperature application | 35 | 55 | °C |
| Declared load profile for water heating | | | |
| Seasonal space heating energy efficiency class, average climate: | **A+++** | **A++** | |
| Water heating energy efficiency class, average climate: | | | |
| Rated heat output, average climate: | 28 | 28 | kW |
| Annual energy consumption for space heating, average climate | 11990 | 15273 | kWh |
| Annual electricity consumption for water heating, average climate | | | kWh |
| Seasonal space heating energy efficiency, average climate: | 185 | 144 | % |
| Water heating energy efficiency, average climate: | | | % |
| Sound power level LWA indoors | 47 | | dB |
| Rated heat output, cold climate: | 28 | 28 | kW |
| Rated heat output, warm climate: | 28 | 28 | kW |
| Annual energy consumption for space heating, cold climate | 13753 | 17489 | kWh |
| Annual electricity consumption for water heating, cold climate | | | kWh |
| Annual energy consumption for space heating, warm climate | 7814 | 10027 | kWh |
| Annual electricity consumption for water heating, warm climate | | | kWh |
| Seasonal space heating energy efficiency, cold climate: | 193 | 150 | % |
| Water heating energy efficiency, cold climate: | | | % |
| Seasonal space heating energy efficiency, warm climate: | 183 | 141 | % |
| Water heating energy efficiency, warm climate: | | | % |
| Sound power level LWA outdoors | - | | dB |

**Data for package fiche**

| | | | |
|---|---|---|---|
| Controller class | II | | |
| Controler contribution to efficiency | 2 | | % |
| Seasonal space heating energy efficiency of package, average climate: | 187 | 146 | % |
| Seasonal space heating energy efficiency class for package, average climate: | **A+++** | **A++** | % |
| Seasonal space heating energy efficiency of package, cold climate: | 195 | 152 | % |
| Seasonal space heating energy efficiency of package, warm climate: | 185 | 143 | % |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **Model(s):** | | **NIBE F1345-24** | | | | | | |
| Type of heat source/sink: | | Brine-to-water | | | | | | |
| Low-temperature heat pump: | | No | | | | | | |
| Equipped with supplementary heater: | | No | | | | | | |
| Heat pump combination heater: | | No | | | | | | |
| Climate condition: | | Average | | | | | | |
| Temperature application: | | Medium temperature (55 °C) | | | | | | |
| Applied standards: EN14825 | | | | | | | | |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **Rated heat output** | Prated | 28,0 | kW | | **Seasonal space heating energy efficiency** | $\eta_s$ | 144 | % |
| *Declared capacity for part load at outdoor temperature Tj* | | | | | *Declared coefficient of performance for part load at outdoor temperature Tj* | | | |
| Tj = -7 °C | Pdh | 22,2 | kW | | Tj = -7 °C | COPd | 3,27 | - |
| Tj = +2 °C | Pdh | 22,8 | kW | | Tj = +2 °C | COPd | 3,84 | - |
| Tj = +7 °C | Pdh | 11,7 | kW | | Tj = +7 °C | COPd | 4,32 | - |
| Tj = +12 °C | Pdh | 11,8 | kW | | Tj = +12 °C | COPd | 4,68 | - |
| Tj = biv | Pdh | 22,4 | kW | | Tj = biv | COPd | 3,45 | - |
| Tj = TOL | Pdh | 22,0 | kW | | Tj = TOL | COPd | 3,10 | - |
| Tj = -15 °C (if TOL < -20 °C) | Pdh | | kW | | Tj = -15 °C (if TOL < -20 °C) | COPd | | - |
| | | | | | | | | |
| Bivalent temperature | $T_{biv}$ | -4,8 | °C | | Operation limit temperature | TOL | -10 | °C |
| Cycling interval capacity for heating | Pcych | | kW | | Cycling interval efficiency | COPcyc | | - |
| Degradation co-efficient | Cdh | 0,99 | - | | Heating water operating limit | WTOL | 65 | °C |
| *Power consumption in modes other than active mode* | | | | | *Supplementary heater* | | | |
| Off mode | $P_{OFF}$ | 0,002 | kW | | Rated heat output | Psup | 6,0 | kW |
| Thermostat-off mode | $P_{TO}$ | 0,03 | kW | | | | | |
| Standby mode | $P_{SB}$ | 0,007 | kW | | Type of energy input | Electric | | |
| Crankcase heater mode | $P_{CK}$ | 0,07 | kW | | | | | |
| *Other items* | | | | | | | | |
| Capacity control | variable | | | | Rated air flow rate, outdoors | | | $m^3/h$ |
| Sound power level, indoors/outdoors | $L_{WA}$ | 47/- | dB | | Rated water flow rate, indoor heat exchanger | | 2,37 | $m^3/h$ |
| Annual energy consumption | $Q_{HE}$ | 15273 | kWh | | Rated brine or water flow rate, outdoor heat exchanger | | 4,46 | $m^3/h$ |
| *For heat pump combination heater:* | | | | | | | | |
| **Declared load profile** | | | | | **Water heating energy efficiency** | $\eta_{wh}$ | | % |
| Daily electricity consumption | $Q_{elec}$ | | kWh | | Daily fuel consumption | $Q_{fuel}$ | | kWh |
| Annual electricity consumption | AEC | | kWh | | Annual fuel consumption | AFC | | GJ |

**Approved by:**

| | |
|---|---|
| **Contact details** | **© NIBE Energy Systems - Box 14 - Hannabadsvägen 5 - 28521 Markaryd - Sweden** |