



ENERGY

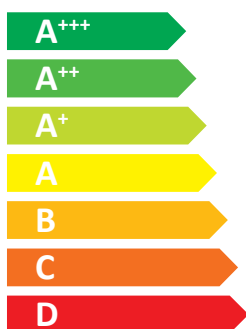


NIBE F1145-15



55 °C

35 °C



A++

A++



43 dB



dB

■ 18
■ **18**
■ 18
kW

■ 18
■ **18**
■ 18
kW



2019

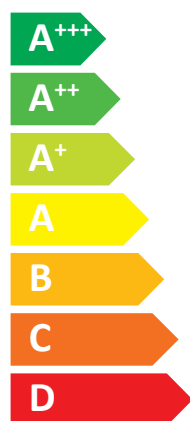
811/2013



ENERGY



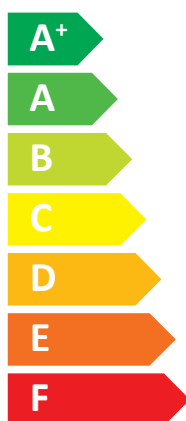
NIBE F1145-15 + VPB500



A⁺⁺



XXL



A



43 dB



dB



■ 18 kW

■ 18 kW

■ 18 kW



ENERGY

 **NIBE**

NIBE F1145-15 + VPB500



A⁺⁺



A



A⁺⁺⁺

A⁺⁺

A⁺

A

B

C

D

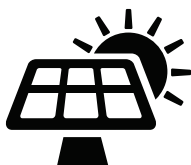
E

F

G

A⁺⁺

+



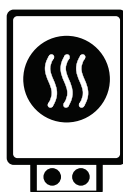
+



+



+



XXL

A⁺⁺⁺

A⁺⁺

A⁺

A

B

C

D

E

F


G

A

| | | | |
|---|---------------------------------|------------|-----|
| Supplier's name: | NIBE | | |
| Model: | NIBE F1145-15 (+VPB 500) | | |
| Temperature application | 35 | 55 | °C |
| Declared load profile for water heating | XXL | | |
| Seasonal space heating energy efficiency class, average climate: | A++ | A++ | |
| Water heating energy efficiency class, average climate: | A | | |
| Rated heat output, average climate: | 18 | 18 | kW |
| Annual energy consumption for space heating, average climate | 8134 | 10194 | kWh |
| Annual electricity consumption for water heating, average climate | 2283 | | kWh |
| Seasonal space heating energy efficiency, average climate: | 175 | 138 | % |
| Water heating energy efficiency, average climate: | 94 | | % |
| Sound power level LWA indoors | 43 | | dB |
| Rated heat output, cold climate: | 18 | 18 | kW |
| Rated heat output, warm climate: | 18 | 18 | kW |
| Annual energy consumption for space heating, cold climate | 9454 | 11893 | kWh |
| Annual electricity consumption for water heating, cold climate | 2283 | | kWh |
| Annual energy consumption for space heating, warm climate | 5333 | 6636 | kWh |
| Annual electricity consumption for water heating, warm climate | 2283 | | kWh |
| Seasonal space heating energy efficiency, cold climate: | 180 | 141 | % |
| Water heating energy efficiency, cold climate: | 94 | | % |
| Seasonal space heating energy efficiency, warm climate: | 172 | 137 | % |
| Water heating energy efficiency, warm climate: | 94 | | % |
| Sound power level LWA outdoors | - | | dB |

Data for package fiche

| | | | |
|--|-------------|------------|---|
| Controller class | VII | | |
| Controller contribution to efficiency | 3,5 | | % |
| Seasonal space heating energy efficiency of package, average climate: | 178 | 141 | % |
| Seasonal space heating energy efficiency class for package, average climate: | A+++ | A++ | % |
| Seasonal space heating energy efficiency of package, cold climate: | 183 | 145 | % |
| Seasonal space heating energy efficiency of package, warm climate: | 176 | 140 | % |

| | | | | | | | | | |
|---|-------|---|------|--|---|---|------|-----|---|
| Model(s): | | NIBE F1145-15 (+ VPB 500) | | | |  | | | |
| Type of heat source/sink: | | Brine-to-water | | | | | | | |
| Low-temperature heat pump: | | No | | | | | | | |
| Equipped with supplementary heater: | | Yes | | | | | | | |
| Heat pump combination heater: | | Yes | | | | | | | |
| Climate condition: | | Average | | | | | | | |
| Temperature application: | | Medium temperature (55 °C) | | | | | | | |
| Applied standards: EN14825 and EN16147 | | | | | | | | | |
| Rated heat output | | Prated | 18,0 | kW | Seasonal space heating energy efficiency | | ηs | 138 | % |
| Declared capacity for part load at outdoor temperature Tj | | | | | Declared coefficient of performance for part load at outdoor temperature Tj | | | | |
| Tj = -7 °C | Pdh | 14,6 | kW | Tj = -7 °C | COPd | 3,16 | - | | |
| Tj = +2 °C | Pdh | 14,8 | kW | Tj = +2 °C | COPd | 3,72 | - | | |
| Tj = +7 °C | Pdh | 15,1 | kW | Tj = +7 °C | COPd | 4,01 | - | | |
| Tj = +12 °C | Pdh | 15,4 | kW | Tj = +12 °C | COPd | 4,27 | - | | |
| Tj = biv | Pdh | 14,6 | kW | Tj = biv | COPd | 3,27 | - | | |
| Tj = TOL | Pdh | 14,6 | kW | Tj = TOL | COPd | 2,96 | - | | |
| Tj = -15 °C (if TOL < -20 °C) | Pdh | | kW | Tj = -15 °C (if TOL < -20 °C) | COPd | | - | | |
| | | | | | | | | | |
| Bivalent temperature | Tbiv | -5,1 | °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 | POFF | 0,002 | kW | Rated heat output | Psup | 3,4 | kW | | |
| Thermostat-off mode | Pto | 0,022 | kW | | | | | | |
| Standby mode | PSB | 0,007 | kW | Type of energy input | Electric | | | | |
| Crankcase heater mode | PCK | 0,035 | kW | | | | | | |
| Other items | | | | | | | | | |
| Capacity control | fixed | | | Rated air flow rate, outdoors | | | m³/h | | |
| Sound power level, indoors/outdoors | LWA | 43/- | dB | Rated water flow rate, indoor heat exchanger | | 1,57 | m³/h | | |
| Annual energy consumption | QHE | 10194 | kWh | Rated brine or water flow rate, outdoor heat exchanger | | 2,89 | m³/h | | |
| For heat pump combination heater: | | | | | | | | | |
| Declared load profile | | XXL | | Water heating energy efficiency | | ηwh | 94 | % | |
| | | | | | | | | | |
| Daily electricity consumption | Qelec | 10,39 | kWh | Daily fuel consumption | Qfuel | | kWh | | |
| Annual electricity consumption | AEC | 2283 | kWh | Annual fuel consumption | AFC | | GJ | | |
| Approved by: | | | | | | | | | |
| Contact details | | © NIBE Energy Systems - Box 14 - Hannabadsvägen 5 - 28521 Markaryd - Sweden | | | | | | | |