



**ENERG**  
енергия · ενεργεια



**NIBE**

NIBE F1245-10



55 °C

35 °C



**A++**

**A++**



**45** dB



dB

■ 10  
■ **10**  
■ 10  
kW

■ 12  
■ **12**  
■ 12  
kW



2015

811/2013



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Y IJA  
IE IA

**NIBE**

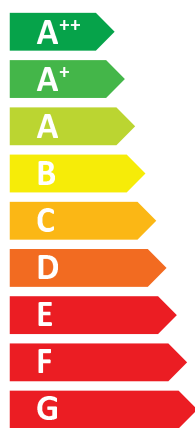
NIBE F1245-10



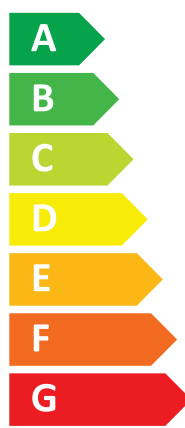
55°C



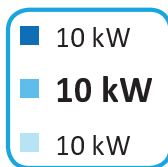
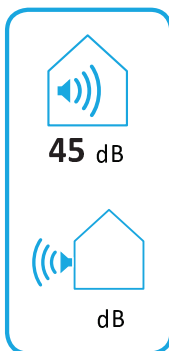
XL



**A++**



**A**



2015

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**NIBE**

## NIBE F1245-10

 35 °C



**A<sup>++</sup>**

**A<sup>+++</sup>**

**A<sup>+++</sup>**

**A<sup>++</sup>**

**A<sup>+</sup>**

**A**

**B**

**C**

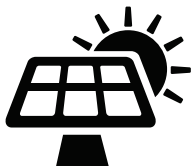
**D**

**E**

**F**

**G**

+



+



+



+





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Y

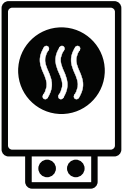




IJA

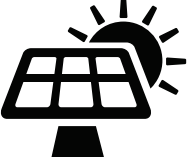
IE


IA


**NIBE**


## NIBE F1245-10

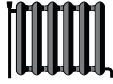






+ 






+ 

+ 

+ 




55 °C

|   |                      |            |     |
|---|----------------------|------------|-----|
| Supplier's name:  | <b>NIBE</b>          |            |     |
| Model:  | <b>NIBE F1245-10</b> |            |     |
| Temperature application   | 35                   | 55         | °C  |
| Declared load profile for water heating                           | <b>XL</b>            |            |     |
| Seasonal space heating energy efficiency class, average climate:  | <b>A++</b>           | <b>A++</b> |     |
| Water heating energy efficiency class, average climate:           | <b>A</b>             |            |     |
| Rated heat output, average climate:                               | 12                   | 10         | kW  |
| Annual energy consumption for space heating, average climate      | 4906                 | 5345       | kWh |
| Annual electricity consumption for water heating, average climate | 1745                 |            | kWh |
| Seasonal space heating energy efficiency, average climate:        | 194                  | 147        | %   |
| Water heating energy efficiency, average climate:                 | 96                   |            | %   |
| Sound power level LWA indoors                                     | 45                   |            | dB  |
| Rated heat output, cold climate:                                  | 12                   | 10         | kW  |
| Rated heat output, warm climate:                                  | 12                   | 10         | kW  |
| Annual energy consumption for space heating, cold climate         | 5695                 | 6214       | kWh |
| Annual electricity consumption for water heating, cold climate    | 1745                 |            | kWh |
| Annual energy consumption for space heating, warm climate         | 3169                 | 3456       | kWh |
| Annual electricity consumption for water heating, warm climate    | 1745                 |            | kWh |
| Seasonal space heating energy efficiency, cold climate:           | 200                  | 151        | %   |
| Water heating energy efficiency, cold climate:                    | 96                   |            | %   |
| Seasonal space heating energy efficiency, warm climate:           | 194                  | 147        | %   |
| Water heating energy efficiency, warm climate:                    | 96                   |            | %   |
| 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:        | 198         | 150         | % |
| Seasonal space heating energy efficiency class for package, average climate: | <b>A+++</b> | <b>A+++</b> | % |
| Seasonal space heating energy efficiency of package, cold climate:           | 203         | 154         | % |
| Seasonal space heating energy efficiency of package, warm climate:           | 198         | 150         | % |

|  |                   |   |      |   |   |                   |                               |                   |                    |     |    |
|--|-------------------|---|------|---|---|-------------------|-------------------------------|-------------------|--------------------|-----|----|
| <b>Model(s):</b>   |                   | <b>NIBE F1245-10</b>  |      |  |   |                   |                               |                   |                    |     |    |
| 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                           |                   |   |      |   |   |                   |                               |                   |                    |     |    |
| <b>Rated heat output</b>   |                   | Prated  | 10,0 | kW  | <b>Seasonal space heating energy efficiency</b> |                   | $\eta_s$                      | 147               | %                  |     |    |
| <i>Declared capacity for part load at outdoor temperature Tj</i> |                   |   |      | <i>Declared coefficient of performance for part load at outdoor temperature Tj</i>  |   |                   |                               |                   |                    |     |    |
| Tj = -7 °C   | Pdh               | 7,9   | kW   | Tj = -7 °C  | COPd  | 3,40              | -                             |                   |                    |     |    |
| Tj = +2 °C   | Pdh               | 8,7   | kW   | Tj = +2 °C  | COPd  | 3,91              | -                             |                   |                    |     |    |
| Tj = +7 °C   | Pdh               | 9,2   | kW   | Tj = +7 °C  | COPd  | 4,25              | -                             |                   |                    |     |    |
| Tj = +12 °C  | Pdh               | 9,6   | kW   | Tj = +12 °C   | COPd  | 4,58              | -                             |                   |                    |     |    |
| Tj = biv   | Pdh               | 8,2   | kW   | Tj = biv  | COPd  | 3,52              | -                             |                   |                    |     |    |
| Tj = TOL   | Pdh               | 7,6   | kW   | Tj = TOL  | COPd  | 3,19              | -                             |                   |                    |     |    |
| Tj = -15 °C (if TOL < -20 °C)                                    | Pdh               |   | kW   | Tj = -15 °C (if TOL < -20 °C)   | COPd  |                   | -                             |                   |                    |     |    |
| Bivalent temperature   |                   |   |      | T <sub>biv</sub>  | -5,2  | °C                | Operation limit temperature   |                   | TOL                | -10 | °C |
| Cycling interval capacity for heating                            |                   |   |      | P <sub>cyh</sub>  |   | kW                | Cycling interval efficiency   |                   | COP <sub>cyh</sub> |     | -  |
| Degradation co-efficient   |                   |   |      | Cdh   | 1,00  | -                 | Heating water operating limit |                   | WTOL               | 65  | °C |
| <i>Power consumption in modes other than active mode</i>         |                   |   |      | <i>Supplementary heater</i>   |   |                   |                               |                   |                    |     |    |
| Off mode   | P <sub>OFF</sub>  | 0,002   | kW   | Rated heat output   |   | P <sub>sup</sub>  | 2,4                           | kW                |                    |     |    |
| Thermostat-off mode  | P <sub>TO</sub>   | 0,01  | kW   | Type of energy input  |   | Electric          |                               |                   |                    |     |    |
| Standby mode   | P <sub>SB</sub>   | 0,007   | kW   |   |   |                   |                               |                   |                    |     |    |
| Crankcase heater mode  | P <sub>CK</sub>   | 0,014   | kW   |   |   |                   |                               |                   |                    |     |    |
| <i>Other items</i>   |                   |   |      |   |   |                   |                               |                   |                    |     |    |
| Capacity control   | fixed             |   |      | Rated air flow rate, outdoors   |   |                   |                               | m <sup>3</sup> /h |                    |     |    |
| Sound power level, indoors/outdoors                              | L <sub>WA</sub>   | 45/-  | dB   | Rated water flow rate, indoor heat exchanger  |   | 0,82              |                               | m <sup>3</sup> /h |                    |     |    |
| Annual energy consumption  | Q <sub>HE</sub>   | 5345  | kWh  | Rated brine or water flow rate, outdoor heat exchanger                              |   | 1,56              |                               | m <sup>3</sup> /h |                    |     |    |
| <i>For heat pump combination heater:</i>                         |                   |   |      |   |   |                   |                               |                   |                    |     |    |
| <b>Declared load profile</b>                                     |                   | <b>XL</b>   |      | <b>Water heating energy efficiency</b>  |   | $\eta_{wh}$       | 96                            | %                 |                    |     |    |
| Daily electricity consumption                                    | Q <sub>elec</sub> | 7,95  | kWh  | Daily fuel consumption  |   | Q <sub>fuel</sub> |                               | kWh               |                    |     |    |
| Annual electricity consumption                                   | AEC               | 1745  | kWh  | Annual fuel consumption   |   | AFC               |                               | GJ                |                    |     |    |
| <b>Approved by:</b>  |                   |   |      |   |   |                   |                               |                   |                    |     |    |
| <b>Contact details</b>   |                   | © NIBE Energy Systems - Box 14 - Hannabadsvägen 5 - 28521 Markaryd - Sweden |      |   |   |                   |                               |                   |                    |     |    |