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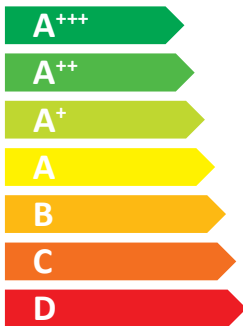
**NIBE**

NIBE F1145-6



55 °C

35 °C



**A++**

**A+++**



**42** dB



dB

■ 7  
■ 7  
■ 7  
kW

■ 7  
■ 7  
■ 7  
kW



2019

811/2013



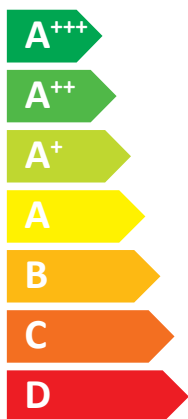
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**NIBE**

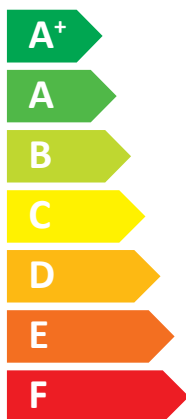
NIBE F1145-6 + VPB300



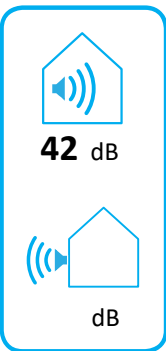
A++



XXL



A



2019

811/2013



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**NIBE**

NIBE F1145-6 + VPB300



A<sup>++</sup>



A



A<sup>+++</sup>

A<sup>++</sup>

A<sup>+</sup>

A

B

C

D

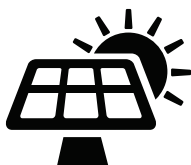
E

F

G

A<sup>++</sup>

+



+



+



+



XXL

A<sup>+++</sup>

A<sup>++</sup>

A<sup>+</sup>

A

B

C

D

E

F

G

A

|                                                                   |                                |            |     |
|-------------------------------------------------------------------|--------------------------------|------------|-----|
| Supplier's name:                                                  | <b>NIBE</b>                    |            |     |
| Model:                                                            | <b>NIBE F1145-6 (+VPB 300)</b> |            |     |
| Temperature application                                           | 35                             | 55         | °C  |
| Declared load profile for water heating                           | <b>XXL</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:                               | 7                              | 7          | kW  |
| Annual energy consumption for space heating, average climate      | 3151                           | 3640       | kWh |
| Annual electricity consumption for water heating, average climate | 2025                           |            | kWh |
| Seasonal space heating energy efficiency, average climate:        | 178                            | 140        | %   |
| Water heating energy efficiency, average climate:                 | 106                            |            | %   |
| Sound power level LWA indoors                                     | 42                             |            | dB  |
| Rated heat output, cold climate:                                  | 7                              | 7          | kW  |
| Rated heat output, warm climate:                                  | 7                              | 7          | kW  |
| Annual energy consumption for space heating, cold climate         | 3577                           | 4201       | kWh |
| Annual electricity consumption for water heating, cold climate    | 2025                           |            | kWh |
| Annual energy consumption for space heating, warm climate         | 2080                           | 2447       | kWh |
| Annual electricity consumption for water heating, warm climate    | 2025                           |            | kWh |
| Seasonal space heating energy efficiency, cold climate:           | 185                            | 145        | %   |
| Water heating energy efficiency, cold climate:                    | 106                            |            | %   |
| Seasonal space heating energy efficiency, warm climate:           | 177                            | 138        | %   |
| Water heating energy efficiency, warm climate:                    | 106                            |            | %   |
| Sound power level LWA outdoors                                    | -                              |            | dB  |

#### Data for package fiche

|                                                                              |             |            |   |
|------------------------------------------------------------------------------|-------------|------------|---|
| Controller class                                                             | <b>VII</b>  |            |   |
| Controller contribution to efficiency                                        | 3,5         |            | % |
| Seasonal space heating energy efficiency of package, average climate:        | 182         | 143        | % |
| 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:           | 188         | 148        | % |
| Seasonal space heating energy efficiency of package, warm climate:           | 181         | 142        | % |

|                                                                             |  |  |                                                                                    |                              |     |                                                                                               |  |                                                                                                |                    |      |      |
|-----------------------------------------------------------------------------|--|--|------------------------------------------------------------------------------------|------------------------------|-----|-----------------------------------------------------------------------------------------------|--|------------------------------------------------------------------------------------------------|--------------------|------|------|
| <b>Model(s):</b>                                                            |  |  |                                                                                    | <b>NIBE F1145-6 + VPB300</b> |     |                                                                                               |  | <div></div> |                    |      |      |
| 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, EN16147 and EN12102                             |  |  |                                                                                    |                              |     |                                                                                               |  |                                                                                                |                    |      |      |
| <b>Rated heat output</b>                                                    |  |  | Prated                                                                             | 6,50                         | kW  | <b>Seasonal space heating energy efficiency</b>                                               |  |                                                                                                | η <sub>s</sub>     | 140  | %    |
| <i>Declared capacity for part load at outdoor temperature T<sub>j</sub></i> |  |  |                                                                                    |                              |     | <i>Declared coefficient of performance for part load at outdoor temperature T<sub>j</sub></i> |  |                                                                                                |                    |      |      |
| T <sub>j</sub> = -7 °C                                                      |  |  | P <sub>dh</sub>                                                                    | 5,3                          | kW  | T <sub>j</sub> = -7 °C                                                                        |  |                                                                                                | COP <sub>d</sub>   | 3,16 | kW   |
| T <sub>j</sub> = +2 °C                                                      |  |  | P <sub>dh</sub>                                                                    | 5,5                          | kW  | T <sub>j</sub> = +2 °C                                                                        |  |                                                                                                | COP <sub>d</sub>   | 3,75 | kW   |
| T <sub>j</sub> = +7 °C                                                      |  |  | P <sub>dh</sub>                                                                    | 5,6                          | kW  | T <sub>j</sub> = +7 °C                                                                        |  |                                                                                                | COP <sub>d</sub>   | 4,12 | kW   |
| T <sub>j</sub> = +12 °C                                                     |  |  | P <sub>dh</sub>                                                                    | 5,8                          | kW  | T <sub>j</sub> = +12 °C                                                                       |  |                                                                                                | COP <sub>d</sub>   | 4,53 | kW   |
| T <sub>j</sub> = biv                                                        |  |  | P <sub>dh</sub>                                                                    | 5,4                          | kW  | T <sub>j</sub> = biv                                                                          |  |                                                                                                | COP <sub>d</sub>   | 3,32 | kW   |
| T <sub>j</sub> = TOL                                                        |  |  | P <sub>dh</sub>                                                                    | 5,2                          | kW  | T <sub>j</sub> = TOL                                                                          |  |                                                                                                | COP <sub>d</sub>   | 2,93 | kW   |
| T <sub>j</sub> = -15 °C (if TOL < -20 °C)                                   |  |  | P <sub>dh</sub>                                                                    |                              | kW  | T <sub>j</sub> = -15 °C (if TOL < -20 °C)                                                     |  |                                                                                                | COP <sub>d</sub>   |      | kW   |
| Bivalent temperature                                                        |  |  | T <sub>biv</sub>                                                                   | -5                           | °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                                                    |  |  | C <sub>dh</sub>                                                                    | 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>   | 1,3  | kW   |
| Thermostat-off mode                                                         |  |  | P <sub>TO</sub>                                                                    | 0                            | kW  |                                                                                               |  |                                                                                                |                    |      |      |
| Standby mode                                                                |  |  | P <sub>SB</sub>                                                                    | 0,007                        | kW  | Type of energy input                                                                          |  |                                                                                                | Electric           |      |      |
| Crankcase heater mode                                                       |  |  | P <sub>CK</sub>                                                                    | 0,014                        | kW  |                                                                                               |  |                                                                                                |                    |      |      |
| <i>Other items</i>                                                          |  |  |                                                                                    |                              |     |                                                                                               |  |                                                                                                |                    |      |      |
| Capacity control                                                            |  |  | fixed                                                                              |                              |     | Rated air flow rate, outdoors                                                                 |  |                                                                                                |                    |      | m³/h |
| Sound power level, indoors/outdoors                                         |  |  | L <sub>WA</sub>                                                                    | 42/-                         | dB  | Rated water flow rate, indoor heat exchanger                                                  |  |                                                                                                |                    | 0,56 | m³/h |
| Annual energy consumption                                                   |  |  | Q <sub>HE</sub>                                                                    | 3640                         | kWh | Rated brine or water flow rate, outdoor heat exchanger                                        |  |                                                                                                |                    | 0,99 | m³/h |
| <i>For heat pump combination heater:</i>                                    |  |  |                                                                                    |                              |     |                                                                                               |  |                                                                                                |                    |      |      |
| <b>Declared load profile</b>                                                |  |  | <b>XXL</b>                                                                         |                              |     | <b>Water heating energy efficiency</b>                                                        |  |                                                                                                | η <sub>wh</sub>    | 106  | %    |
| Daily electricity consumption                                               |  |  | Q <sub>elec</sub>                                                                  | 9,22                         | kWh | Daily fuel consumption                                                                        |  |                                                                                                | Q <sub>fuel</sub>  |      | kWh  |
| Annual electricity consumption                                              |  |  | AEC                                                                                | 2025                         | kWh | Annual fuel consumption                                                                       |  |                                                                                                | AFC                |      | GJ   |
| <b>Approved by:</b>                                                         |  |  |                                                                                    |                              |     |                                                                                               |  |                                                                                                |                    |      |      |
| <b>Contact details</b>                                                      |  |  | <b>© NIBE Energy Systems - Box 14 - Hannabadsvägen 5 - 28521 Markaryd - Sweden</b> |                              |     |                                                                                               |  |                                                                                                |                    |      |      |