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IE IA

NIBE

NIBE F1245-10



55 °C

35 °C



A++

A++



45 dB



dB

■ 10
■ **10**
■ 10
kW

■ 12
■ **12**
■ 12
kW



2015

811/2013

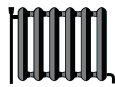


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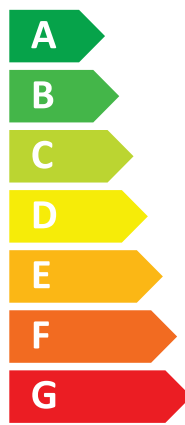


NIBE

NIBE F1245-10



A++



A

45 dB

dB



- 10 kW
- 10 kW**
- 10 kW

2015

811/2013



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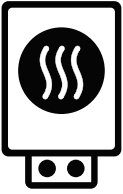




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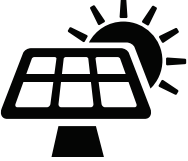
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NIBE F1245-10

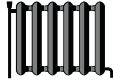











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| | | | |
|---|----------------------|------------|-----|
| Supplier's name: | NIBE | | |
| Model: | NIBE F1245-10 | | |
| Temperature application | 35 | 55 | °C |
| Declared load profile for water heating | XL | | |
| Seasonal space heating energy efficiency class, average climate: | A++ | A++ | |
| Water heating energy efficiency class, average climate: | A | | |
| 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: | A+++ | A+++ | % |
| Seasonal space heating energy efficiency of package, cold climate: | 203 | 154 | % |
| Seasonal space heating energy efficiency of package, warm climate: | 198 | 150 | % |

| | | | | | | | | | | | |
|--|-------------------|---|------|---|---|-------------------|-------------------------------|-------------------|--------------------|-----|----|
| Model(s): | | NIBE F1245-10 | |  | | | | | | | |
| 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 | 10,0 | kW | Seasonal space heating energy efficiency | | η_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 _{biv} | -5,2 | °C | Operation limit temperature | | TOL | -10 | °C |
| Cycling interval capacity for heating | | | | P _{cyh} | | kW | Cycling interval efficiency | | COP _{cyh} | | - |
| 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 _{OFF} | 0,002 | kW | Rated heat output | | P _{sup} | 2,4 | kW | | | |
| Thermostat-off mode | P _{TO} | 0,01 | kW | Type of energy input | | Electric | | | | | |
| Standby mode | P _{SB} | 0,007 | kW | | | | | | | | |
| Crankcase heater mode | P _{CK} | 0,014 | kW | | | | | | | | |
| <i>Other items</i> | | | | | | | | | | | |
| Capacity control | fixed | | | Rated air flow rate, outdoors | | | | m ³ /h | | | |
| Sound power level, indoors/outdoors | L _{WA} | 45/- | dB | Rated water flow rate, indoor heat exchanger | | | 0,82 | m ³ /h | | | |
| Annual energy consumption | Q _{HE} | 5345 | kWh | Rated brine or water flow rate, outdoor heat exchanger | | | 1,56 | m ³ /h | | | |
| <i>For heat pump combination heater:</i> | | | | | | | | | | | |
| Declared load profile | | XL | | Water heating energy efficiency | | η_{wh} | 96 | % | | | |
| Daily electricity consumption | Q _{elec} | 7,95 | kWh | Daily fuel consumption | | Q _{fuel} | | kWh | | | |
| Annual electricity consumption | AEC | 1745 | kWh | Annual fuel consumption | | AFC | | GJ | | | |
| Approved by: | | | | | | | | | | | |
| Contact details | | © NIBE Energy Systems - Box 14 - Hannabadsvägen 5 - 28521 Markaryd - Sweden | | | | | | | | | |