



ENERG
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NIBE

AMS10-16+HBS05



55 °C

35 °C



A++

A++



dB



58 dB

■ 16
■ 14
■ 15
kW

■ 15
■ 15
■ 15
kW

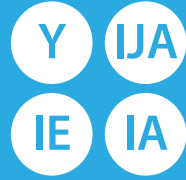


2015

811/2013

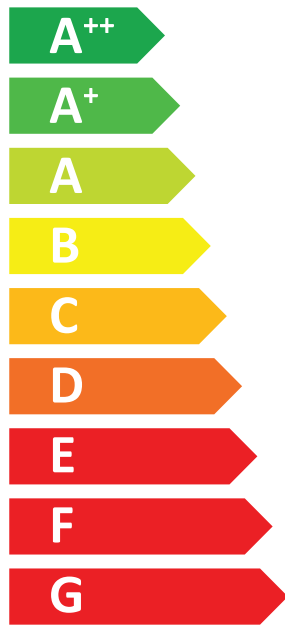
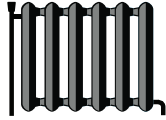


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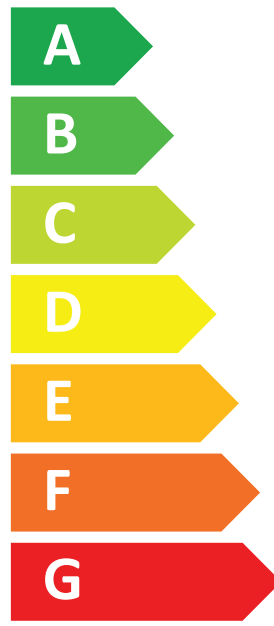


NIBE

AMS10-16 + HBS05 + VVM310



A++



A

Two icons showing sound power levels. The top icon shows a speaker inside a house with the text "35 dB". The bottom icon shows a speaker outside a house with the text "58 dB".



A legend for power capacity with three colored squares: dark blue for "16 kW", medium blue for "14 kW", and light blue for "15 kW".



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Y

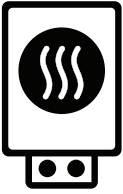


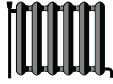


IJA

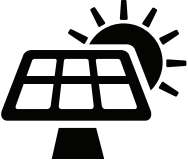
IE


IA


NIBE


AMS10-16 + HBS05 + VVM310











+ 

+ 

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| | | | |
|---|-----------------------------------|------------|-----|
| Supplier's name: | NIBE | | |
| Model: | NIBE AMS10-16+HBS05+VVM310 | | |
| 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: | 14,5 | 14,0 | kW |
| Annual energy consumption for space heating, average climate | 6702 | 8431 | kWh |
| Annual electricity consumption for water heating, average climate | 1702 | | kWh |
| Seasonal space heating energy efficiency, average climate: | 176 | 134 | % |
| Water heating energy efficiency, average climate: | 98 | | % |
| Sound power level LWA indoors | 35 | | dB |
| Rated heat output, cold climate: | 15,0 | 16,0 | kW |
| Rated heat output, warm climate: | 15,0 | 15,0 | kW |
| Annual energy consumption for space heating, cold climate | 10040 | 13629 | kWh |
| Annual electricity consumption for water heating, cold climate | 1904 | | kWh |
| Annual energy consumption for space heating, warm climate | 3370 | 4183 | kWh |
| Annual electricity consumption for water heating, warm climate | 1551 | | kWh |
| Seasonal space heating energy efficiency, cold climate: | 144 | 113 | % |
| Water heating energy efficiency, cold climate: | 88 | | % |
| Seasonal space heating energy efficiency, warm climate: | 235 | 189 | % |
| Water heating energy efficiency, warm climate: | 108 | | % |
| Sound power level LWA outdoors | 61 | | dB |

Data for package fiche

| | | | |
|--|-------------|------------|---|
| Controller class | VI | | |
| Controller contribution to efficiency | 4,0 | | % |
| Seasonal space heating energy efficiency of package, average climate: | 180 | 138 | % |
| Seasonal space heating energy efficiency class for package, average climate: | A+++ | A++ | % |
| Seasonal space heating energy efficiency of package, cold climate: | 148 | 117 | % |
| Seasonal space heating energy efficiency of package, warm climate: | 239 | 193 | % |

| | | | | | | | | | | | |
|--|-----|------|----|--|-------------------------------|--|------|---|------|-------------------|--|
| Model(s): | | | | NIBE AMS10-16+HBS05+VVM310 | | | |  | | | |
| Type of heat source/sink: | | | | Air-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 | 14,0 | kW | | Seasonal space heating energy efficiency | | | |
| | | | | | | | | η_s | 134 | % | |
| <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 | 12,5 | kW | | Tj = -7 °C | COPd | 2,01 | - | | | |
| Tj = +2 °C | Pdh | 7,6 | kW | | Tj = +2 °C | COPd | 3,29 | - | | | |
| Tj = +7 °C | Pdh | 4,9 | kW | | Tj = +7 °C | COPd | 4,68 | - | | | |
| Tj = +12 °C | Pdh | 6,8 | kW | | Tj = +12 °C | COPd | 6,51 | - | | | |
| Tj = biv | Pdh | 12,7 | kW | | Tj = biv | COPd | 1,95 | - | | | |
| Tj = TOL | Pdh | 11,0 | kW | | Tj = TOL | COPd | 1,95 | - | | | |
| Tj = -15 °C (if TOL < -20 °C) | Pdh | | kW | | Tj = -15 °C (if TOL < -20 °C) | COPd | | - | | | |
| Bivalent temperature | | | | T _{biv} | -7,6 | °C | | Operation limit temperature | | | |
| Cycling interval capacity for heating | | | | P _{cyc} | | kW | | Cycling interval efficiency | | | |
| Degradation co-efficient | | | | C _{dh} | 0,98 | - | | Heating water operating limit | | | |
| | | | | | | | | WTOL | 58 | °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 | | | |
| Thermostat-off mode | | | | P _{TO} | 0,016 | kW | | P _{sup} | | | |
| Standby mode | | | | P _{SB} | 0,015 | kW | | 3,0 | | | |
| Crankcase heater mode | | | | P _{CK} | 0,035 | kW | | kW | | | |
| | | | | | | | | Type of energy input | | | |
| | | | | | | | | Electric | | | |
| <i>Other items</i> | | | | | | | | | | | |
| Capacity control | | | | variable | | | | Rated air flow rate, outdoors | | | |
| | | | | | | | | | 6000 | m ³ /h | |
| Sound power level, indoors/outdoors | | | | L _{WA} | 35/58 | dB | | Rated water flow rate, indoor heat exchanger | | | |
| | | | | | | | | | 1,21 | m ³ /h | |
| Annual energy consumption | | | | Q _{HE} | 8431 | kWh | | Rated brine or water flow rate, outdoor heat exchanger | | | |
| | | | | | | | | | | m ³ /h | |
| <i>For heat pump combination heater:</i> | | | | | | | | | | | |
| Declared load profile | | | | XL | | | | Water heating energy efficiency | | | |
| | | | | | | | | η_{wh} | 98 | % | |
| Daily electricity consumption | | | | Q _{elec} | 7,75 | kWh | | Daily fuel consumption | | | |
| Annual electricity consumption | | | | AEC | 1702 | kWh | | Q _{fuel} | | | |
| | | | | | | | | AFC | | | |
| | | | | | | | | GJ | | | |
| Approved by: | | | | | | | | | | | |
| Contact details | | | | © NIBE Energy Systems - Box 14 - Hannabadsvägen 5 - 28521 Markaryd - Sweden | | | | | | | |