



ENERG Υ UA EHEPΓИЯ · ενεργεια II IA



NIBE F2030-9























 A^+

A

В

C

D

E

G

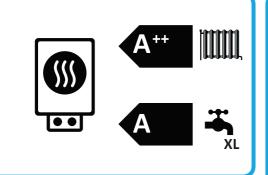


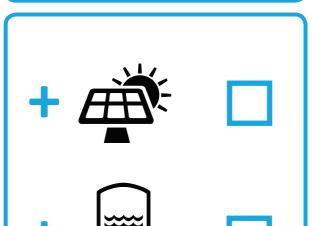


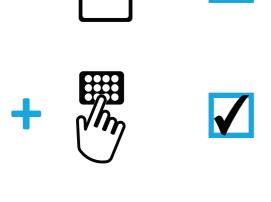
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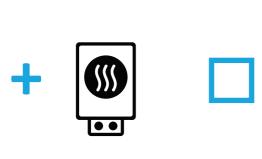


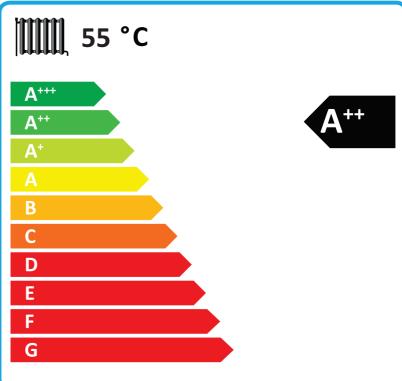
NIBE F2030-9 + VVM310

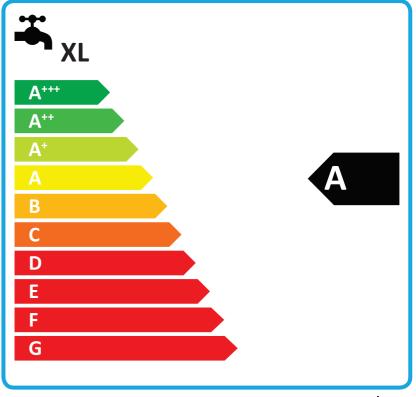












2015

| Supplier's name: | N | | | |
|--|------------|--------------|-------|--|
| Model: | NIBE F2030 | 0-9+ VVM 310 | | |
| Temperature application | 35 | 55 | °C | |
| Declared load profile for water | | XL | | |
| heating | | | 1 | |
| Seasonal space heating energy | A++ | A++ | | |
| efficiency class, average climate: | A11 | All | | |
| Water heating energy efficiency | | Α | | |
| class, average climate: | | <u> </u> | | |
| Rated heat output, average climate: | 8,3 | 8,9 | kW | |
| Annual energy consumption for | | | | |
| space heating, average climate | 4431 | 5508 | kWh | |
| Annual electricity consumption for | | 000 | 1,147 | |
| water heating, average climate | 1 | 662 | kWh | |
| Seasonal space heating energy | | | | |
| efficiency, average climate: | 152 | 131 | % | |
| Water heating energy efficiency, | 101 | | 0,4 | |
| average climate: | | | % | |
| Sound power level LWA indoors | 35 | | dB | |
| Rated heat output, cold climate: | 8,0 | 8,2 | kW | |
| Rated heat output, warm climate: | 11 | 11,4 | kW | |
| Annual energy consumption for | 5458 | 6555 | kWh | |
| space heating, cold climate | 5456 | 0000 | KVVII | |
| Annual electricity consumption for | 1902 | | kWh | |
| water heating, cold climate | | | KVVII | |
| Annual energy consumption for | 3317 | 3920 | kWh | |
| space heating, warm climate | 0017 | 3320 | KVVII | |
| Annual electricity consumption for | 1577 | | kWh | |
| water heating, warm climate | | | 1 | |
| Seasonal space heating energy | 142 | 120 | % | |
| efficiency, cold climate: | | | 1 | |
| Water heating energy efficiency, cold climate: | 88 | | % | |
| Seasonal space heating energy | | | 1 | |
| efficiency, warm climate: | 174 | 152 | % | |
| Water heating energy efficiency, | 106 | | | |
| warm climate: | 1 | % | | |
| Sound power level LWA outdoors | | dB | | |
| 1 | | | | |

Data for package fiche

| Controller class | V | | |
|--|-----|-----|---|
| Controler contribution to efficiency | 3,5 | | % |
| Seasonal space heating energy efficiency of package, average climate: | 155 | 134 | % |
| Seasonal space heating energy efficiency class for package, average climate: | A++ | A++ | % |
| Seasonal space heating energy efficiency of package, cold climate: | 145 | 124 | % |
| Seasonal space heating energy efficiency of package, warm climate: | 178 | 156 | % |

| Air-to-water | | |
|----------------------------|--|--|
| No | | |
| Yes | | |
| Yes | | |
| Average | | |
| Medium temperature (55 °C) | | |
| | | |



| Declared capacity for part load at outdoor temperature T T = -7 °C | remperature application: | | ivie | ululli telli | perature (55°C) | | | |
|--|---|---|-------|--------------|--|--------------------|-------------|---------|
| Prated 8,9 kW efficiency | Applied standards: EN14825 and EN16147 | | | | | | | |
| Tj = -7 °C | Rated heat output | Prated | 8,9 | kW | | η _s | 131 | % |
| Tj = +2 °C | Declared capacity for part load at outdoor temp | erature Tj | | | Declared coefficient of performance for part | load at outdoo | or temperat | ture Tj |
| Tj = +7 °C | Tj = -7 °C | Pdh | 7,0 | kW | Tj = -7 °C | COPd | 2,6 | - |
| Tj = +12 °C | Tj = +2 °C | Pdh | 7,9 | kW | Tj = +2 °C | COPd | 3,35 | - |
| Tj = biv Tj = rol. Tj = ro | | Pdh | 8,4 | kW | Tj = +7 °C | COPd | 4,18 | - |
| Tj = TOL Tj = -15 °C (if TOL < -20 °C) Pdh KW Tj = -15 °C (if TOL < -20 °C) Pdh KW Tj = -15 °C (if TOL < -20 °C) Pdh KW Tj = -15 °C (if TOL < -20 °C) Bivalent temperature T _{biv} Cycling interval capacity for heating Pcych Degradation co-efficient Cdh 0,99 Power consumption in modes other than active mode Off mode Pro O,002 KW Thermostat-off mode Pro O,0012 KW Standby mode Pro Cycling interval efficiency Cycling interv | Tj = +12 °C | Pdh | 10,8 | kW | Tj = +12 °C | COPd | 4,57 | - |
| Tij = -15 °C (if TOL < -20 °C) Pdh kW Bivalent temperature T _{biv} -5,1 °C Cycling interval capacity for heating Pcych Degradation co-efficient Cdh 0,99 - Heating water operating limit temperature TOL -10 °C Cycling interval efficiency COPcyc - Heating water operating limit WTOL 65 °C Cycling interval efficiency COPcyc - Heating water operating limit WTOL 65 °C Cycling interval efficiency COPcyc - Heating water operating limit WTOL 65 °C Cycling interval efficiency COPcyc - Heating water operating limit WTOL 65 °C Cycling interval efficiency COPcyc - Heating water operating limit WTOL 65 °C Cycling interval efficiency COPcyc - Heating water operating limit WTOL 65 °C Cycling interval efficiency COPcyc - Heating water operating limit WTOL 65 °C Cycling interval efficiency COPcyc - Heating water operating limit WTOL 65 °C Cycling interval efficiency COPcyc - Heating water operating limit WTOL 65 °C Cycling interval efficiency COPcyc - Heating water operating limit WTOL 65 °C Cycling interval efficiency COPcyc - Heating water operating limit WTOL 65 °C Cycling interval efficiency COPcyc - Heating water operating limit WTOL 65 °C Cycling interval efficiency COPcyc - Heating water operating limit WTOL 65 °C Cycling interval efficiency COPcyc - Heating water operating limit WTOL 65 °C Cycling interval efficiency COPcyc - Heating water operating limit WTOL 65 °C Cycling interval efficiency COPcyc - Heating water operating limit WTOL 65 °C Cycling interval efficiency COPcyc - Heating water operating limit WTOL 65 °C Cycling interval efficiency COPcyc - Tolk Plants (South Water Heating water operating limit WTOL 65 °C Cycling interval efficiency COPcyc - Tolk Plants (South Water Heating water operating limit WTOL 65 °C Cycling interval efficiency COPcyc - Tolk Plants (South Water Heating water operating limit WTOL 65 °C Cycling interval efficiency COPcyc - Tolk Plants (South Water Heating water operating limit WTOL 65 °C Cycling interval efficiency COPcyc - Tolk Plants (South Water Heating water operating limit WTOL 65 | Tj = biv | Pdh | 7,2 | kW | Tj = biv | COPd | 2,74 | - |
| Bivalent temperature T _{biv} -5,1 °C Cycling interval capacity for heating Pcych KW Degradation co-efficient Cdh 0,99 - Browner consumption in modes other than active mode Off mode P _{OFF} 0,002 kW Thermostat-off mode P ₇₀ 0,012 kW Standby mode P _{SB} 0,015 kW Crankcase heater mode P _{CK} 0,031 kW Other items Capacity control fixed Sound power level, indoors/outdoors L _{WA} 35/58 dB Annual energy consumption Q _{HE} 5508 kWh Daily electricity consumption Q _{elec} 7,57 kWh Annual electricity consumption AEC 1662 kWh Operation limit temperature TOL -10 °C Cycling interval efficiency COPcyc - Heating water operating limit WTOL 65 °C Cycling interval efficiency COPcyc - Heating water operating limit WTOL 65 °C Cycling interval efficiency COPcyc - Heating water operating limit WTOL 65 °C Cycling interval efficiency COPcyc - Heating water operating limit WTOL 65 °C Cycling interval efficiency COPcyc - Heating water operating limit WTOL 65 °C Cycling interval efficiency COPcyc - Heating water operating limit WTOL 65 °C Cycling interval efficiency COPcyc - Heating water operating limit WTOL 65 °C Cycling interval efficiency COPcyc - Heating water operating limit WTOL 65 °C Cycling interval efficiency COPcyc - Heating water operating limit WTOL 65 °C Cycling interval efficiency COPcyc - Heating water operating limit WTOL 65 °C Cycling interval efficiency COPcyc - Heating water operating limit WTOL 65 °C Cycling interval efficiency COPcyc - Heating water operating limit WTOL 65 °C Cycling interval efficiency COPcyc Level Copcuration Approach Supplementary beater Cycling interval efficiency COPcyc Level Copcuration Approach Supplementary beater Cycling interval efficiency COPcyc Level Copcuration Approach Supplementary beater Cycling interval efficiency COPcyc Level Copcuration Approach Supplementary beater Cycling interval efficiency COPcyc Level Copcuration Approach Supplementa | Tj = TOL | Pdh | 6,6 | kW | Tj = TOL | COPd | 2,36 | - |
| Cycling interval capacity for heating Pcych Degradation co-efficient Cdh 0,99 - Heating water operating limit WTOL 65 °C Corport Power consumption in modes other than active mode Off mode Poff O,002 kW Thermostat-off mode Pro 0,012 kW Standby mode Pss 0,015 kW Crankcase heater mode Pck 0,031 kW Capacity control fixed Sound power level, indoors/outdoors LwA 35/58 dB Sound power level, indoors/outdoors LwA 35/58 dB Rated brine or water flow rate, indoor heat exchanger 1,111 m³, Rated brine or water flow rate, outdoor heat exchanger m³, which is a supplementary heater supplementary heater and the supplementary heate | Tj = -15 °C (if TOL < -20 °C) | Pdh | | kW | Tj = -15 °C (if TOL < -20 °C) | COPd | | - |
| Degradation co-efficient Cdh 0,99 - Heating water operating limit WTOL 65 °C Power consumption in modes other than active mode Off mode POFF 0,002 kW Thermostat-off mode PSB 0,012 kW Standby mode PSB 0,015 kW Crankcase heater mode PCK 0,031 kW Other items Capacity control fixed Rated air flow rate, outdoors Rated water flow rate, indoor heat exchanger 1,11 m³, Annual energy consumption QHE S508 kWh outdoor heat exchanger m³, For heat pump combination heater: Declared load profile XL Daily electricity consumption AEC 1662 kWh Annual electricity consumption AEC 1662 kWh Approved by: | Bivalent temperature | T _{biv} | -5,1 | °C | Operation limit temperature | TOL | -10 | °C |
| Power consumption in modes other than active mode Off mode Poff | Cycling interval capacity for heating | Pcych | | kW | Cycling interval efficiency | COPcyc | | - |
| Power consumption in modes other than active mode Off mode Off mode Poff O,002 kW Thermostat-off mode Pro O,012 kW Standby mode Pro O,015 kW Type of energy input Electric Type of energy input Type of energy input Electric Type of energy input Type of en | Degradation co-efficient | Cdh | 0,99 | - | Heating water operating limit | WTOL | 65 | °C |
| Thermostat-off mode | · | | | | | 1 1 | | |
| Standby mode | Off mode | P _{OFF} | 0,002 | kW | Rated heat output | Psup | 2,3 | kW |
| Crankcase heater mode PCK 0,031 kW Other items Capacity control fixed Sound power level, indoors/outdoors Annual energy consumption PCF heat pump combination heater: Declared load profile XL Daily electricity consumption Qelec 7,57 kWh Annual electricity consumption AEC 1662 kWh Annual fuel consumption Rated air flow rate, outdoors Rated water flow rate, indoor heat exchanger Rated brine or water flow rate, outdoor heat exchanger NM Water heating energy efficiency PMh 101 % Annual fuel consumption AFC G. Approved by: | Thermostat-off mode | P_{TO} | 0,012 | kW | | | | |
| Other items Capacity control Fixed Sound power level, indoors/outdoors Annual energy consumption Capacity control For heat pump combination heater: Declared load profile Declared load profile XL Daily electricity consumption Qelec Approved by: Rated air flow rate, outdoors Rated water flow rate, indoor heat exchanger Rated brine or water flow rate, outdoor heat exchanger Nated brine or water flow rate, outdoor heat exchanger Part Heat pump combination heater: Water heating energy efficiency Daily fuel consumption AFC GAPProved by: | Standby mode | P_{SB} | 0,015 | kW | Type of energy input | Electric | | |
| Capacity control Fixed Sound power level, indoors/outdoors LwA 35/58 dB Annual energy consumption QHE 5508 kWh Capacity control Rated air flow rate, outdoors Rated water flow rate, indoor heat exchanger Rated brine or water flow rate, outdoor heat exchanger Mated brine or water flow rate, outdoor heat exchanger Mated brine or water flow rate, outdoor heat exchanger Mated brine or water flow rate, outdoor heat exchanger Mated brine or water flow rate, outdoor heat exchanger Mated brine or water flow rate, outdoor heat exchanger Mated brine or water flow rate, outdoor heat exchanger Mated brine or water flow rate, outdoor heat exchanger Mated brine or water flow rate, outdoor heat exchanger Daily electricity consumption heater: Daily electricity consumption AEC 1662 kWh Annual fuel consumption AFC G. Approved by: | Crankcase heater mode | P _{CK} | 0,031 | kW | | • | | |
| Sound power level, indoors/outdoors L _{WA} 35/58 dB Rated water flow rate, indoor heat exchanger Rated brine or water flow rate, outdoor heat exchanger Mater heating energy efficiency Daily electricity consumption Q _{elec} 7,57 kWh Annual electricity consumption AEC 1662 kWh Rated water flow rate, indoor heat exchanger 1,11 m³, Water heating energy efficiency Daily fuel consumption Q _{fuel} kW Annual fuel consumption AFC G. Approved by: | Other items | | | | | | | |
| Sound power level, indoors/outdoors LwA 35/58 dB exchanger Rated brine or water flow rate, outdoor heat exchanger Manual energy consumption Cyle 5508 kWh Declared load profile XL Daily electricity consumption Qelec 7,57 kWh Annual electricity consumption AEC 1662 kWh Annual fuel consumption AFC G. Approved by: | Capacity control | | fixed | | | | 3000 | m³/h |
| Annual energy consumption Q _{HE} 5508 kWh Rated brine or water flow rate, outdoor heat exchanger Mater heating energy efficiency Mater heating energy efficiency Daily electricity consumption Q _{elec} 7,57 kWh Annual electricity consumption AEC 1662 kWh Annual fuel consumption AFC G. Approved by: | Sound power level, indoors/outdoors | L _{W/A} | 35/58 | dB | · · | | 1,11 | m³/h |
| Annual energy consumption Q _{HE} 5508 kWh outdoor heat exchanger m³/ For heat pump combination heater: Declared load profile XL Water heating energy efficiency nwh 101 % Daily electricity consumption AEC 1662 kWh Annual fuel consumption AFC G. Approved by: | · | | - | | Rated brine or water flow rate | | | |
| Daily electricity consumption AEC 1662 kWh Annual electricity consumption AEC 1662 kWh Annual fuel consumption AFC 5.57 kWh Annual fuel consumption AFC 6.56 Approved by: | Annual energy consumption | Q_{HE} | 5508 | kWh | · · · · · · · · · · · · · · · · · · · | | | m³/h |
| Daily electricity consumption AEC 1662 kWh Annual electricity consumption AEC 1662 kWh Annual fuel consumption AFC 5.57 kWh Annual fuel consumption AFC 6.56 Approved by: | For heat pump combination heater: | | | | | | | |
| Annual electricity consumption AEC 1662 kWh Annual fuel consumption AFC G. Approved by: | | | XL | | Water heating energy efficiency | η_{wh} | 101 | % |
| Annual electricity consumption AEC 1662 kWh Annual fuel consumption AFC G. Approved by: | Daily electricity consumption | Q _{alac} | 7.57 | kWh | Daily fuel consumption | Q _{fuel} | | kWh |
| Approved by: | · · · · · · · · · · · · · · · · · · · | | | | | | | GJ |
| | | ,,,, | 1002 | | ar raci consumption | 7.11.0 | | |
| | | © NIBE Fnergy Systems - Box 14 - Hannahadsvägen 5 - 28521 Markaryd - Sweden | | | | | | |