

This information was generated by the HP KEYMARK database on 7 Jul 2022

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| | | | |
|---------------------|------------------------|----------|---------------|
| Summary of | NIBE AMS 10-8 | Reg. No. | 012-SC0604-18 |
| Certificate Holder | | | |
| Name | Nibe AB | | |
| Address | Box 14 | Zip | S-28521 |
| City | Markaryd | Country | Sweden |
| Certification Body | RISE CERT | | |
| Subtype title | NIBE AMS 10-8 | | |
| Heat Pump Type | Outdoor Air/Water | | |
| Refrigerant | R410A | | |
| Mass of Refrigerant | 2.6 kg | | |
| Certification Date | 20.09.2018 | | |
| Testing basis | HP Keymark Scheme 2018 | | |

Model: NIBE AMS 10-8 + HBS05-12

| Configure model | |
|-------------------------------------|--------------------------|
| Model name | NIBE AMS 10-8 + HBS05-12 |
| Application | Heating (medium temp) |
| Units | Indoor + Outdoor |
| Climate Zone | n/a |
| Reversibility | Yes |
| Cooling mode application (optional) | n/a |

| General Data | |
|--------------|-------------|
| Power supply | 1x230V 50Hz |

Heating

| EN 14511-4 | |
|--|--------|
| Operating range outdoor exchanger/indoor exchanger lower limit/lower limit | passed |
| Operating range outdoor exchanger/indoor exchanger upper limit/upper limit | passed |
| Shutting off the heat transfer medium flow | passed |
| Complete power supply failure | passed |
| Defrost test | passed |

| EN 14511-2 | | |
|-------------|-----------------|--------------------|
| | Low temperature | Medium temperature |
| Heat output | 3.86 kW | 3.50 kW |
| El input | 0.83 kW | 1.19 kW |
| COP | 4.65 | 2.94 |

Average Climate

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EN 12102-1

| | Low temperature | Medium temperature |
|---------------------------|-----------------|--------------------|
| Sound power level indoor | 35 dB(A) | 35 dB(A) |
| Sound power level outdoor | 55 dB(A) | 55 dB(A) |

EN 14825

| | Low temperature | Medium temperature |
|---------------|-----------------|--------------------|
| η_s | 172 % | 127 % |
| Prated | 8.20 kW | 7.00 kW |
| SCOP | 4.37 | 3.25 |
| Tbiv | -8 °C | -9 °C |
| TOL | -10 °C | -10 °C |
| Pdh Tj = -7°C | 7.40 kW | 6.30 kW |
| COP Tj = -7°C | 2.92 | 1.94 |
| Pdh Tj = +2°C | 4.50 kW | 3.90 kW |
| COP Tj = +2°C | 4.30 | 3.11 |
| Pdh Tj = +7°C | 2.90 kW | 2.60 kW |
| COP Tj = +7°C | 5.41 | 4.42 |
| Pdh Tj = 12°C | 3.50 kW | 3.70 kW |
| COP Tj = 12°C | 6.51 | 5.93 |
| Pdh Tj = Tbiv | 7.40 kW | 6.60 kW |

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| | | |
|---|-------------|-------------|
| COP $T_j = T_{biv}$ | 2.86 | 1.83 |
| $P_{dh} T_j = TOL$ or $P_{dh} T_j = T_{designh}$ if $TOL < T_{designh}$ | 6.80 kW | 5.90 kW |
| COP $T_j = TOL$ or COP $T_j = T_{designh}$ if $TOL < T_{designh}$ | 2.67 | 1.86 |
| $C_{dh} T_j = TOL$ or $P_{dh} T_j = T_{designh}$ if $TOL < T_{designh}$ | 0.96 | 0.97 |
| WTOL | 65 °C | 65 °C |
| P _{off} | 2 W | 2 W |
| PTO | 15 W | 10 W |
| PSB | 15 W | 15 W |
| PCK | 30 W | 30 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 1.40 kW | 1.10 kW |
| Annual energy consumption Q _{he} | 3882 kWh | 4447 kWh |

Model: NIBE AMS 10-8 + HK200S-12

| Configure model | |
|-------------------------------------|---------------------------|
| Model name | NIBE AMS 10-8 + HK200S-12 |
| Application | Heating + DHW + low temp |
| Units | Indoor + Outdoor |
| Climate Zone | n/a |
| Reversibility | Yes |
| Cooling mode application (optional) | n/a |

| General Data | |
|--------------|-------------|
| Power supply | 1x230V 50Hz |

Heating

| EN 14511-4 | |
|--|--------|
| Operating range outdoor exchanger/indoor exchanger lower limit/lower limit | passed |
| Operating range outdoor exchanger/indoor exchanger upper limit/upper limit | passed |
| Shutting off the heat transfer medium flow | passed |
| Complete power supply failure | passed |
| Defrost test | passed |

| EN 14511-2 | | |
|-------------|-----------------|--------------------|
| | Low temperature | Medium temperature |
| Heat output | 3.86 kW | 3.50 kW |
| El input | 0.83 kW | 1.19 kW |
| COP | 4.65 | 2.94 |

Average Climate

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EN 12102-1

| | Low temperature | Medium temperature |
|---------------------------|-----------------|--------------------|
| Sound power level indoor | 35 dB(A) | 35 dB(A) |
| Sound power level outdoor | 55 dB(A) | 55 dB(A) |

EN 14825

| | Low temperature | Medium temperature |
|---------------|-----------------|--------------------|
| η_s | 172 % | 127 % |
| Prated | 8.20 kW | 7.00 kW |
| SCOP | 4.37 | 3.25 |
| Tbiv | -8 °C | -9 °C |
| TOL | -10 °C | -10 °C |
| Pdh Tj = -7°C | 7.40 kW | 6.30 kW |
| COP Tj = -7°C | 2.92 | 1.94 |
| Pdh Tj = +2°C | 4.50 kW | 3.90 kW |
| COP Tj = +2°C | 4.30 | 3.11 |
| Pdh Tj = +7°C | 2.90 kW | 2.60 kW |
| COP Tj = +7°C | 5.41 | 4.42 |
| Pdh Tj = 12°C | 3.50 kW | 3.70 kW |
| COP Tj = 12°C | 6.51 | 5.93 |
| Pdh Tj = Tbiv | 7.40 kW | 6.60 kW |

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|---|-------------|-------------|
| COP $T_j = T_{biv}$ | 2.86 | 1.83 |
| $P_{dh} T_j = TOL$ or $P_{dh} T_j = T_{designh}$ if $TOL < T_{designh}$ | 6.80 kW | 5.90 kW |
| COP $T_j = TOL$ or COP $T_j = T_{designh}$ if $TOL < T_{designh}$ | 2.67 | 1.86 |
| $C_{dh} T_j = TOL$ or $P_{dh} T_j = T_{designh}$ if $TOL < T_{designh}$ | 0.96 | 0.97 |
| WTOL | 65 °C | 65 °C |
| P _{off} | 2 W | 2 W |
| PTO | 15 W | 10 W |
| PSB | 15 W | 15 W |
| PCK | 30 W | 30 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 1.40 kW | 1.10 kW |
| Annual energy consumption Q_{he} | 3882 kWh | 4447 kWh |

Domestic Hot Water (DHW)

Average Climate

| EN 16147 | |
|---------------------------------|------------|
| Declared load profile | XL |
| Efficiency η_{DHW} | 99 % |
| COP | 2.34 |
| Heating up time | 1:28 h:min |
| Standby power input | 85.0 W |
| Reference hot water temperature | 50.9 °C |
| Mixed water at 40°C | 226 l |

Model: NIBE AMS10-8 + BA-SVM 10-200/12

| Configure model | |
|-------------------------------------|---------------------------------|
| Model name | NIBE AMS10-8 + BA-SVM 10-200/12 |
| Application | Heating + DHW + low temp |
| Units | Indoor + Outdoor |
| Climate Zone | n/a |
| Reversibility | Yes |
| Cooling mode application (optional) | n/a |

| General Data | |
|--------------|-------------|
| Power supply | 1x230V 50Hz |

Heating

| EN 14511-4 | |
|--|--------|
| Operating range outdoor exchanger/indoor exchanger lower limit/lower limit | passed |
| Operating range outdoor exchanger/indoor exchanger upper limit/upper limit | passed |
| Shutting off the heat transfer medium flow | passed |
| Complete power supply failure | passed |
| Defrost test | passed |

| EN 14511-2 | | |
|-------------|-----------------|--------------------|
| | Low temperature | Medium temperature |
| Heat output | 8.34 kW | 5.52 kW |
| El input | 1.89 kW | 1.86 kW |
| COP | 4.42 | 2.96 |

Average Climate

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EN 12102-1

| | Low temperature | Medium temperature |
|---------------------------|-----------------|--------------------|
| Sound power level indoor | 35 dB(A) | 35 dB(A) |
| Sound power level outdoor | 55 dB(A) | 55 dB(A) |

EN 14825

| | Low temperature | Medium temperature |
|---------------|-----------------|--------------------|
| η_s | 172 % | 127 % |
| Prated | 8.20 kW | 7.00 kW |
| SCOP | 4.37 | 3.25 |
| Tbiv | -8 °C | -9 °C |
| TOL | -10 °C | -10 °C |
| Pdh Tj = -7°C | 7.40 kW | 6.30 kW |
| COP Tj = -7°C | 2.92 | 1.94 |
| Pdh Tj = +2°C | 4.50 kW | 3.90 kW |
| COP Tj = +2°C | 4.30 | 3.11 |
| Pdh Tj = +7°C | 2.90 kW | 2.60 kW |
| COP Tj = +7°C | 5.41 | 4.42 |
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| $C_{dh} T_j = TOL$ or $P_{dh} T_j = T_{designh}$ if $TOL < T_{designh}$ | 0.96 | 0.97 |
| WTOL | 65 °C | 65 °C |
| P _{off} | 2 W | 2 W |
| PTO | 15 W | 10 W |
| PSB | 15 W | 15 W |
| PCK | 30 W | 30 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 1.40 kW | 1.10 kW |
| Annual energy consumption Q_{he} | 3882 kWh | 4447 kWh |

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Average Climate

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| EN 16147 | |
|---------------------------------|------------|
| | |
| Declared load profile | XL |
| Efficiency η_{DHW} | 99 % |
| COP | 2.34 |
| Heating up time | 1:28 h:min |
| Standby power input | 85.0 W |
| Reference hot water temperature | 50.9 °C |
| Mixed water at 40°C | 226 l |

Model: NIBE AMS 10-8 + SHB10-12

| Configure model | |
|-------------------------------------|--------------------------|
| Model name | NIBE AMS 10-8 + SHB10-12 |
| Application | Heating (medium temp) |
| Units | Indoor + Outdoor |
| Climate Zone | n/a |
| Reversibility | Yes |
| Cooling mode application (optional) | n/a |

| General Data | |
|--------------|-------------|
| Power supply | 1x230V 50Hz |

Heating

| EN 14511-4 | |
|--|--------|
| Operating range outdoor exchanger/indoor exchanger lower limit/lower limit | passed |
| Operating range outdoor exchanger/indoor exchanger upper limit/upper limit | passed |
| Shutting off the heat transfer medium flow | passed |
| Complete power supply failure | passed |
| Defrost test | passed |

| EN 14511-2 | | |
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| Cdh Tj = -7 °C | 0.97 | 0.97 |
| Pdh Tj = +2°C | 4.50 kW | 3.90 kW |
| COP Tj = +2°C | 4.30 | 3.11 |
| Cdh Tj = +2 °C | 0.97 | 0.97 |
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| COP Tj = 12°C | 6.51 | 5.93 |
| Cdh Tj = +12 °C | 0.97 | 0.97 |
| Pdh Tj = Tbiv | 7.40 kW | 6.60 kW |
| COP Tj = Tbiv | 2.86 | 1.83 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 6.80 kW | 5.90 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.67 | 1.86 |
| WTOL | 65 °C | 65 °C |
| Poff | 2 W | 2 W |
| PTO | 15 W | 10 W |
| PSB | 15 W | 15 W |
| PCK | 30 W | 30 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 1.40 kW | 1.10 kW |
| Annual energy consumption Qhe | 3882 kWh | 4447 kWh |