

## Subtype NIBE AMS 10-16

|                     |  |
|---------------------|--|
| Certificate Holder  | Nibe AB                                      |
| Address             | Box 14                                       |
| ZIP                 | S-28521                                      |
| City                | Markaryd                                     |
| Country             | SE   |
| Certification Body  | RISE CERT                                    |
| Subtype title       | NIBE AMS 10-16                               |
| Registration number | 012-SC0606-18                                |
| Heat Pump Type      | Outdoor Air/Water                            |
| Refrigerant         | R410A  |
| Mass of Refrigerant | 4 kg   |
| Certification Date  | 20.09.2018                                   |
| Testing basis       | EN 14511:2013, EN 14825:2016, EN 12102:2017. |

## Model NIBE AMS 10-16 + HBS05-16

|                                     |                           |
|-------------------------------------|---------------------------|
| Model name                          | NIBE AMS 10-16 + HBS05-16 |
| Application                         | Heating (medium temp)     |
| Units                               | Indoor, Outdoor           |
| Climate zone (for heating)          | n/a                       |
| Cooling mode application (optional) | n/a                       |
| Any additional heat sources         | n/a                       |

## General data

|                  |             |
|------------------|-------------|
| Power supply     | 1x230V 50Hz |
| Off-peak product | n/a         |

## Outdoor Air/Water

### EN 14511-4 | Heating

|  |        |
|--|--------|
| Shutting off the heat transfer medium flow | passed |
| Complete power supply failure              | passed |
| Defrost test                               | passed |

### EN 12102-1 | Average Climate

|                           | Low temperature | Medium temperature |
|---------------------------|-----------------|--------------------|
| Sound power level indoor  | 35 dB(A)        | 35 dB(A)           |
| Sound power level outdoor | 62 dB(A)        | 62 dB(A)           |

### EN 14825 | Average Climate

|   | Low temperature | Medium temperature |
|---|-----------------|--------------------|
| $\eta_s$  | 176 %           | 134 %              |
| Prated  | 14.50 kW        | 14.00 kW           |
| SCOP  | 4.47            | 3.42               |
| Tbiv  | -8 °C           | -8 °C              |
| TOL   | -10 °C          | -10 °C             |
| Pdh Tj = -7°C                                       | 12.90 kW        | 12.50 kW           |
| COP Tj = -7°C                                       | 2.96            | 2.01               |
| Pdh Tj = +2°C                                       | 7.90 kW         | 7.60 kW            |
| COP Tj = +2°C                                       | 4.37            | 3.29               |
| Pdh Tj = +7°C                                       | 5.10 kW         | 4.90 kW            |
| COP Tj = +7°C                                       | 5.58            | 4.68               |
| Pdh Tj = 12°C                                       | 6.40 kW         | 6.80 kW            |
| COP Tj = 12°C                                       | 6.99            | 6.51               |
| Pdh Tj = Tbiv                                       | 13.40 kW        | 12.70 kW           |
| COP Tj = Tbiv                                       | 2.86            | 1.95               |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 12.50 kW        | 11.00 kW           |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.71            | 1.95               |

|   |             |             |
|---|-------------|-------------|
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.97        | 0.98        |
| WTOL  | 65 °C       | 65 °C       |
| Poff  | 2 W         | 2 W         |
| PTO   | 25 W        | 16 W        |
| PSB   | 15 W        | 15 W        |
| PCK   | 35 W        | 35 W        |
| Supplementary Heater: Type of energy input          | Electricity | Electricity |
| Supplementary Heater: PSUP                          | 2.00 kW     | 3.00 kW     |
| Annual energy consumption Qhe                       | 6702 kWh    | 8431 kWh    |

## Model NIBE AMS 10-16 + SHB10-16

|                                     |                           |
|-------------------------------------|---------------------------|
| Model name                          | NIBE AMS 10-16 + SHB10-16 |
| Application                         | Heating (medium temp)     |
| Units                               | Indoor, Outdoor           |
| Climate zone (for heating)          | n/a                       |
| Cooling mode application (optional) | n/a                       |
| Any additional heat sources         | n/a                       |

## General data

|                  |             |
|------------------|-------------|
| Power supply     | 1x230V 50Hz |
| Off-peak product | n/a         |

## Outdoor Air/Water

### EN 14511-4 | Heating

|  |        |
|--|--------|
| Shutting off the heat transfer medium flow | passed |
| Complete power supply failure              | passed |
| Defrost test                               | passed |

### EN 12102-1 | Average Climate

|                           | Low temperature | Medium temperature |
|---------------------------|-----------------|--------------------|
| Sound power level indoor  | 35 dB(A)        | 35 dB(A)           |
| Sound power level outdoor | 62 dB(A)        | 62 dB(A)           |

### EN 14825 | Average Climate

|                 | Low temperature | Medium temperature |
|-----------------|-----------------|--------------------|
| $\eta_s$        | 176 %           | 134 %              |
| Prated          | 14.50 kW        | 14.00 kW           |
| SCOP            | 4.47            | 3.42               |
| Tbiv            | -8 °C           | -8 °C              |
| TOL             | -10 °C          | -10 °C             |
| Pdh Tj = -7°C   | 12.90 kW        | 12.50 kW           |
| COP Tj = -7°C   | 2.96            | 2.01               |
| Cdh Tj = -7 °C  | 0.98            | 0.98               |
| Pdh Tj = +2°C   | 7.90 kW         | 7.60 kW            |
| COP Tj = +2°C   | 4.37            | 3.29               |
| Cdh Tj = +2 °C  | 0.98            | 0.98               |
| Pdh Tj = +7°C   | 5.10 kW         | 4.90 kW            |
| COP Tj = +7°C   | 5.58            | 4.68               |
| Cdh Tj = +7 °C  | 0.98            | 0.98               |
| Pdh Tj = 12°C   | 6.40 kW         | 6.80 kW            |
| COP Tj = 12°C   | 6.99            | 6.51               |
| Cdh Tj = +12 °C | 0.98            | 0.98               |
| Pdh Tj = Tbiv   | 13.40 kW        | 12.70 kW           |
| COP Tj = Tbiv   | 2.86            | 1.95               |

|   |             |             |
|---|-------------|-------------|
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 12.50 kW    | 11.00 kW    |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.71        | 1.95        |
| WTOL  | 65 °C       | 65 °C       |
| Poff  | 2 W         | 2 W         |
| PTO   | 25 W        | 25 W        |
| PSB   | 15 W        | 15 W        |
| PCK   | 35 W        | 35 W        |
| Supplementary Heater: Type of energy input          | Electricity | Electricity |
| Supplementary Heater: PSUP                          | 2.00 kW     | 3.00 kW     |
| Annual energy consumption Qhe                       | 6702 kWh    | 8431 kWh    |