

|                                                                  |                   |       |           |                                                                                    |    |                                                                                    |                   |                                                                                     |                 |     |   |
|------------------------------------------------------------------|-------------------|-------|-----------|------------------------------------------------------------------------------------|----|------------------------------------------------------------------------------------|-------------------|-------------------------------------------------------------------------------------|-----------------|-----|---|
| <b>Model(s):</b>                                                 |                   |       |           | <b>NIBE S735-7 E</b>                                                               |    |                                                                                    |                   |  |                 |     |   |
| Type of heat source/sink:                                        |                   |       |           | Exhaust air/water                                                                  |    |                                                                                    |                   |                                                                                     |                 |     |   |
| Low-temperature heat pump:                                       |                   |       |           | No                                                                                 |    |                                                                                    |                   |                                                                                     |                 |     |   |
| Equipped with supplementary heater:                              |                   |       |           | Yes                                                                                |    |                                                                                    |                   |                                                                                     |                 |     |   |
| Heat pump combination heater:                                    |                   |       |           | Yes                                                                                |    |                                                                                    |                   |                                                                                     |                 |     |   |
| Climate condition:                                               |                   |       |           | Average                                                                            |    |                                                                                    |                   |                                                                                     |                 |     |   |
| Temperature application:                                         |                   |       |           | Low temperature (35 °C)                                                            |    |                                                                                    |                   |                                                                                     |                 |     |   |
| Applied standards: EN14825 - EN16147 - EN12102-1                 |                   |       |           |                                                                                    |    |                                                                                    |                   |                                                                                     |                 |     |   |
| <b>Rated heat output</b>                                         |                   |       | Prated    | 5,6                                                                                | kW | <b>Seasonal space heating energy efficiency</b>                                    |                   |                                                                                     | ηs              | 177 | % |
| <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               | 4,9   | kW        | Tj = -7 °C                                                                         |    |                                                                                    | COPd              | 3,09                                                                                |                 |     |   |
| Tj = +2 °C                                                       | Pdh               | 3,0   | kW        | Tj = +2 °C                                                                         |    |                                                                                    | COPd              | 4,84                                                                                |                 |     |   |
| Tj = +7 °C                                                       | Pdh               | 2,0   | kW        | Tj = +7 °C                                                                         |    |                                                                                    | COPd              | 5,52                                                                                |                 |     |   |
| Tj = +12 °C                                                      | Pdh               | 1,6   | kW        | Tj = +12 °C                                                                        |    |                                                                                    | COPd              | 5,87                                                                                |                 |     |   |
| Tj = biv                                                         | Pdh               | 4,9   | kW        | Tj = biv                                                                           |    |                                                                                    | COPd              | 3,09                                                                                |                 |     |   |
| Tj = TOL                                                         | Pdh               | 5,0   | kW        | Tj = TOL                                                                           |    |                                                                                    | COPd              | 2,97                                                                                |                 |     |   |
| Tj = -15 °C (if TOL < -20 °C)                                    | Pdh               |       | kW        | Tj = -15 °C (if TOL < -20 °C)                                                      |    |                                                                                    | COPd              |                                                                                     |                 |     |   |
|                                                                  |                   |       |           |                                                                                    |    |                                                                                    |                   |                                                                                     |                 |     |   |
| Bivalent temperature                                             | Tbiv              | -7    | °C        | Operation limit temperature                                                        |    |                                                                                    | TOL               | -10                                                                                 | °C              |     |   |
| Cycling interval capacity for heating                            | Pcyh              |       | kW        | Cycling interval efficiency                                                        |    |                                                                                    | COPcyc            |                                                                                     | -               |     |   |
| Degradation co-efficient                                         | Cdh               | 0,81  | -         | Heating water operating limit                                                      |    |                                                                                    | WTOL              | 65                                                                                  | °C              |     |   |
| <i>Power consumption in modes other than active mode</i>         |                   |       |           |                                                                                    |    | <i>Supplementary heater</i>                                                        |                   |                                                                                     |                 |     |   |
| Off mode                                                         | P <sub>OFF</sub>  | 0,008 | kW        | Rated heat output                                                                  |    |                                                                                    | Psup              | 0,6                                                                                 | kW              |     |   |
| Thermostat-off mode                                              | P <sub>TO</sub>   | 0,050 | kW        |                                                                                    |    |                                                                                    |                   |                                                                                     |                 |     |   |
| Standby mode                                                     | P <sub>SB</sub>   | 0,034 | kW        | Type of energy input                                                               |    |                                                                                    | Electric          |                                                                                     |                 |     |   |
| Crankcase heater mode                                            | P <sub>CK</sub>   | 0,008 | kW        |                                                                                    |    |                                                                                    |                   |                                                                                     |                 |     |   |
| <i>Other items</i>                                               |                   |       |           |                                                                                    |    |                                                                                    |                   |                                                                                     |                 |     |   |
| Capacity control                                                 | Variable          |       |           | Rated air flow rate, outdoors                                                      |    |                                                                                    |                   | 239                                                                                 | m³/h            |     |   |
| Sound power level, indoors/outdoors                              | L <sub>WA</sub>   | 44/-  | dB        | Rated water flow rate, indoor heat exchanger                                       |    |                                                                                    |                   | 0,68                                                                                | m³/h            |     |   |
| Annual energy consumption                                        | Q <sub>HE</sub>   | 2571  | kWh       | Rated brine or water flow rate, outdoor heat exchanger                             |    |                                                                                    |                   |                                                                                     | m³/h            |     |   |
| <i>For heat pump combination heater:</i>                         |                   |       |           |                                                                                    |    |                                                                                    |                   |                                                                                     |                 |     |   |
| <b>Declared load profile</b>                                     |                   |       | <b>XL</b> |                                                                                    |    | <b>Water heating energy efficiency</b>                                             |                   |                                                                                     | η <sub>wh</sub> | 117 | % |
|                                                                  |                   |       |           |                                                                                    |    |                                                                                    |                   |                                                                                     |                 |     |   |
| Daily electricity consumption                                    | Q <sub>elec</sub> | 6,900 | kWh       | Daily fuel consumption                                                             |    |                                                                                    | Q <sub>fuel</sub> |                                                                                     | kWh             |     |   |
| Annual electricity consumption                                   | AEC               | 1432  | kWh       | Annual fuel consumption                                                            |    |                                                                                    | AFC               |                                                                                     | GJ              |     |   |
| <b>Contact details</b>                                           |                   |       |           | <b>© NIBE Energy Systems - Box 14 - Hannabadsvägen 5 - 28521 Markaryd - Sweden</b> |    |                                                                                    |                   |                                                                                     |                 |     |   |