

## Subtype F7x0

|                     |                   |
|---------------------|-------------------|
| Certificate Holder  | Nibe AB           |
| Address             | Box 14            |
| ZIP                 | S-28521           |
| City                | Markaryd          |
| Country             | SE                |
| Certification Body  | RISE CERT         |
| Subtype title       | F7x0              |
| Registration number | 012-025           |
| Heat Pump Type      | Exhaust Air/Water |
| Refrigerant         | R407c             |
| Mass of Refrigerant | 0.74 kg           |

## Model F730

|                                     |                                |
|-------------------------------------|--------------------------------|
| Model name                          | F730                           |
| Application                         | Heating + DHW + low temp       |
| Units                               | Indoor                         |
| Climate zone (for heating)          | Warmer Climate, Colder Climate |
| Cooling mode application (optional) | n/a                            |
| Any additional heat sources         | n/a                            |

## General data

|                  |             |
|------------------|-------------|
| Power supply     | 1x230V 50Hz |
| Off-peak product | No          |

## Exhaust Air/Water

### EN 16147 | Average Climate

|                                 |             |
|---------------------------------|-------------|
| Declared load profile           | L           |
| Efficiency $\eta_{DHW}$         | 91 %        |
| COP                             | 2.28        |
| Heating up time                 | 04:30 h:min |
| Standby power input             | 50.0 W      |
| Reference hot water temperature | 51.0 °C     |
| Mixed water at 40°C             | 210 l       |

### EN 16147 | Colder Climate

|                                 |             |
|---------------------------------|-------------|
| Declared load profile           | L           |
| Efficiency $\eta_{DHW}$         | 91 %        |
| COP                             | 2.28        |
| Heating up time                 | 04:30 h:min |
| Standby power input             | 50.0 W      |
| Reference hot water temperature | 51.0 °C     |
| Mixed water at 40°C             | 210 l       |

### EN 16147 | Warmer Climate

|                                 |             |
|---------------------------------|-------------|
| Declared load profile           | L           |
| Efficiency $\eta_{DHW}$         | 91 %        |
| COP                             | 2.28        |
| Heating up time                 | 04:30 h:min |
| Standby power input             | 50.0 W      |
| Reference hot water temperature | 51.0 °C     |
| Mixed water at 40°C             | 210 l       |

## EN 14511-4 | Heating

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

## EN 14511-2 | Heating

|             | Low temperature | Medium temperature |
|-------------|-----------------|--------------------|
| Heat output | 3.19 kW         | 3.52 kW            |
| El input    | 0.92 kW         | 1.51 kW            |
| COP         | 3.47            | 2.33               |

#### EN 12102-1 | Average Climate

|                          | Low temperature | Medium temperature |
|--------------------------|-----------------|--------------------|
| Sound power level indoor | 44 dB(A)        | 44 dB(A)           |

#### EN 14825 | Average Climate

|                                                     | Low temperature | Medium temperature |
|-----------------------------------------------------|-----------------|--------------------|
| $\eta_s$                                            | 172 %           | 132 %              |
| Prated                                              | 4.50 kW         | 4.50 kW            |
| SCOP                                                | 4.38            | 3.38               |
| Tbiv                                                | -5 °C           | -7 °C              |
| TOL                                                 | -10 °C          | -10 °C             |
| Pdh Tj = -7°C                                       | 3.50 kW         | 4.00 kW            |
| COP Tj = -7°C                                       | 3.20            | 2.30               |
| Pdh Tj = +2°C                                       | 2.60 kW         | 2.80 kW            |
| COP Tj = +2°C                                       | 4.50            | 3.30               |
| Pdh Tj = +7°C                                       | 1.60 kW         | 1.70 kW            |
| COP Tj = +7°C                                       | 5.80            | 4.30               |
| Pdh Tj = 12°C                                       | 1.50 kW         | 1.70 kW            |
| COP Tj = 12°C                                       | 5.50            | 4.20               |
| Pdh Tj = Tbiv                                       | 3.60 kW         | 4.00 kW            |
| COP Tj = Tbiv                                       | 3.20            | 2.30               |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 3.60 kW         | 3.60 kW            |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 3.10            | 2.30               |
| Rated airflow rate                                  | 180 m³/h        | 180 m³/h           |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.93            | 0.97               |
| WTOL                                                | 65 °C           | 65 °C              |
| Poff                                                | 3 W             | 3 W                |
| PTO                                                 | 20 W            | 20 W               |
| PSB                                                 | 20 W            | 20 W               |
| PCK                                                 | 0 W             | 0 W                |
| Supplementary Heater: Type of energy input          | Electricity     | Electricity        |
| Supplementary Heater: PSUP                          | 0.90 kW         | 0.90 kW            |
| Annual energy consumption Qhe                       | 2758 kWh        | 2756 kWh           |

#### EN 12102-1 | Colder Climate

|                          | Low temperature | Medium temperature |
|--------------------------|-----------------|--------------------|
| Sound power level indoor | 44 dB(A)        | 44 dB(A)           |

#### EN 14825 | Colder Climate

|                                                     | Low temperature       | Medium temperature    |
|-----------------------------------------------------|-----------------------|-----------------------|
| $\eta_s$                                            | 183 %                 | 140 %                 |
| Prated                                              | 4.50 kW               | 4.50 kW               |
| SCOP                                                | 4.65                  | 3.58                  |
| Tbiv                                                | -12 °C                | -15 °C                |
| TOL                                                 | -22 °C                | -22 °C                |
| Pdh Tj = -7°C                                       | 2.80 kW               | 2.80 kW               |
| COP Tj = -7°C                                       | 4.30                  | 3.10                  |
| Pdh Tj = +2°C                                       | 1.70 kW               | 1.70 kW               |
| COP Tj = +2°C                                       | 5.40                  | 4.20                  |
| Pdh Tj = +7°C                                       | 1.50 kW               | 1.70 kW               |
| COP Tj = +7°C                                       | 5.90                  | 4.30                  |
| Pdh Tj = 12°C                                       | 1.50 kW               | 1.70 kW               |
| COP Tj = 12°C                                       | 4.90                  | 4.00                  |
| Pdh Tj = Tbiv                                       | 3.30 kW               | 3.80 kW               |
| COP Tj = Tbiv                                       | 3.40                  | 2.50                  |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 3.60 kW               | 3.60 kW               |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 3.10                  | 2.30                  |
| Rated airflow rate                                  | 180 m <sup>3</sup> /h | 180 m <sup>3</sup> /h |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.92                  | 0.96                  |
| WTOL                                                | 65 °C                 | 65 °C                 |
| Poff                                                | 3 W                   | 3 W                   |
| PTO                                                 | 20 W                  | 20 W                  |
| PSB                                                 | 20 W                  | 20 W                  |
| PCK                                                 | 0 W                   | 0 W                   |
| Supplementary Heater: Type of energy input          | Electricity           | Electricity           |
| Supplementary Heater: PSUP                          | 0.90 kW               | 0.90 kW               |
| Annual energy consumption Qhe                       | 2389 kWh              | 3105 kWh              |

#### EN 12102-1 | Warmer Climate

|                          | Low temperature | Medium temperature |
|--------------------------|-----------------|--------------------|
| Sound power level indoor | 44 dB(A)        | 44 dB(A)           |

#### EN 14825 | Warmer Climate

|               | Low temperature | Medium temperature |
|---------------|-----------------|--------------------|
| $\eta_s$      | 174 %           | 133 %              |
| Prated        | 4.50 kW         | 4.50 kW            |
| SCOP          | 4.43            | 3.40               |
| Tbiv          | 5 °C            | 4 °C               |
| TOL           | 2 °C            | 2 °C               |
| Pdh Tj = +2°C | 3.60 kW         | 3.60 kW            |
| COP Tj = +2°C | 3.10            | 2.30               |
| Pdh Tj = +7°C | 2.90 kW         | 2.90 kW            |

|                                                     |                       |                       |
|-----------------------------------------------------|-----------------------|-----------------------|
| COP Tj = +7°C                                       | 3.90                  | 3.00                  |
| Pdh Tj = 12°C                                       | 1.50 kW               | 1.70 kW               |
| COP Tj = 12°C                                       | 5.90                  | 4.30                  |
| Pdh Tj = Tbiv                                       | 3.60 kW               | 3.90 kW               |
| COP Tj = Tbiv                                       | 3.30                  | 2.30                  |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 3.60 kW               | 3.60 kW               |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 3.10                  | 2.30                  |
| Rated airflow rate                                  | 180 m <sup>3</sup> /h | 180 m <sup>3</sup> /h |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.94                  | 0.97                  |
| WTOL                                                | 60 °C                 | 60 °C                 |
| Poff                                                | 3 W                   | 3 W                   |
| PTO                                                 | 20 W                  | 20 W                  |
| PSB                                                 | 20 W                  | 20 W                  |
| PCK                                                 | 0 W                   | 0 W                   |
| Supplementary Heater: Type of energy input          | Electricity           | Electricity           |
| Supplementary Heater: PSUP                          | 0.90 kW               | 0.90 kW               |
| Annual energy consumption Qhe                       | 1359 kWh              | 1766 kWh              |

## Model F750

|                                     |                                |
|-------------------------------------|--------------------------------|
| Model name                          | F750                           |
| Application                         | Heating + DHW + low temp       |
| Units                               | Indoor                         |
| Climate zone (for heating)          | Warmer Climate, Colder Climate |
| Cooling mode application (optional) | n/a                            |
| Any additional heat sources         | n/a                            |

## General data

|                  |             |
|------------------|-------------|
| Power supply     | 3x400V 50Hz |
| Off-peak product | No          |

## Exhaust Air/Water

### EN 16147 | Average Climate

|                                 |             |
|---------------------------------|-------------|
| Declared load profile           | L           |
| Efficiency $\eta_{DHW}$         | 91 %        |
| COP                             | 2.28        |
| Heating up time                 | 04:30 h:min |
| Standby power input             | 50.0 W      |
| Reference hot water temperature | 51.0 °C     |
| Mixed water at 40°C             | 210 l       |

### EN 16147 | Colder Climate

|                                 |             |
|---------------------------------|-------------|
| Declared load profile           | L           |
| Efficiency $\eta_{DHW}$         | 91 %        |
| COP                             | 2.28        |
| Heating up time                 | 04:30 h:min |
| Standby power input             | 50.0 W      |
| Reference hot water temperature | 51.0 °C     |
| Mixed water at 40°C             | 210 l       |

### EN 16147 | Warmer Climate

|                                 |             |
|---------------------------------|-------------|
| Declared load profile           | L           |
| Efficiency $\eta_{DHW}$         | 91 %        |
| COP                             | 2.28        |
| Heating up time                 | 04:30 h:min |
| Standby power input             | 50.0 W      |
| Reference hot water temperature | 51.0 °C     |
| Mixed water at 40°C             | 210 l       |

### EN 14511-4 | Heating

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

### EN 14511-2 | Heating

|             | Low temperature | Medium temperature |
|-------------|-----------------|--------------------|
| Heat output | 3.19 kW         | 3.52 kW            |
| El input    | 0.92 kW         | 1.51 kW            |
| COP         | 3.47            | 2.33               |

#### EN 12102-1 | Average Climate

|                          | Low temperature | Medium temperature |
|--------------------------|-----------------|--------------------|
| Sound power level indoor | 44 dB(A)        | 44 dB(A)           |

#### EN 14825 | Average Climate

|                                                     | Low temperature | Medium temperature |
|-----------------------------------------------------|-----------------|--------------------|
| $\eta_s$                                            | 172 %           | 132 %              |
| Prated                                              | 4.50 kW         | 4.50 kW            |
| SCOP                                                | 4.38            | 3.38               |
| Tbiv                                                | -5 °C           | -7 °C              |
| TOL                                                 | -10 °C          | -10 °C             |
| Pdh Tj = -7°C                                       | 3.50 kW         | 4.00 kW            |
| COP Tj = -7°C                                       | 3.20            | 2.30               |
| Pdh Tj = +2°C                                       | 2.60 kW         | 2.80 kW            |
| COP Tj = +2°C                                       | 4.50            | 3.30               |
| Pdh Tj = +7°C                                       | 1.60 kW         | 1.70 kW            |
| COP Tj = +7°C                                       | 5.80            | 4.30               |
| Pdh Tj = 12°C                                       | 1.50 kW         | 1.70 kW            |
| COP Tj = 12°C                                       | 5.50            | 4.20               |
| Pdh Tj = Tbiv                                       | 3.60 kW         | 4.00 kW            |
| COP Tj = Tbiv                                       | 3.20            | 2.30               |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 3.60 kW         | 3.60 kW            |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 3.10            | 2.30               |
| Rated airflow rate                                  | 180 m³/h        | 180 m³/h           |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.93            | 0.97               |
| WTOL                                                | 65 °C           | 65 °C              |
| Poff                                                | 3 W             | 3 W                |
| PTO                                                 | 20 W            | 20 W               |
| PSB                                                 | 20 W            | 20 W               |
| PCK                                                 | 0 W             | 0 W                |
| Supplementary Heater: Type of energy input          | Electricity     | Electricity        |
| Supplementary Heater: PSUP                          | 0.90 kW         | 0.90 kW            |
| Annual energy consumption Qhe                       | 2758 kWh        | 2756 kWh           |

#### EN 12102-1 | Colder Climate

|                          | Low temperature | Medium temperature |
|--------------------------|-----------------|--------------------|
| Sound power level indoor | 44 dB(A)        | 44 dB(A)           |

#### EN 14825 | Colder Climate

|                                                     | Low temperature       | Medium temperature    |
|-----------------------------------------------------|-----------------------|-----------------------|
| $\eta_s$                                            | 183 %                 | 140 %                 |
| Prated                                              | 4.50 kW               | 4.50 kW               |
| SCOP                                                | 4.65                  | 3.58                  |
| Tbiv                                                | -12 °C                | -15 °C                |
| TOL                                                 | -22 °C                | -22 °C                |
| Pdh Tj = -7°C                                       | 2.80 kW               | 2.80 kW               |
| COP Tj = -7°C                                       | 4.30                  | 3.10                  |
| Pdh Tj = +2°C                                       | 1.70 kW               | 1.70 kW               |
| COP Tj = +2°C                                       | 5.40                  | 4.20                  |
| Pdh Tj = +7°C                                       | 1.50 kW               | 1.70 kW               |
| COP Tj = +7°C                                       | 5.90                  | 4.30                  |
| Pdh Tj = 12°C                                       | 1.50 kW               | 1.70 kW               |
| COP Tj = 12°C                                       | 4.90                  | 4.00                  |
| Pdh Tj = Tbiv                                       | 3.30 kW               | 3.80 kW               |
| COP Tj = Tbiv                                       | 3.40                  | 2.50                  |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 3.60 kW               | 3.60 kW               |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 3.10                  | 2.30                  |
| Rated airflow rate                                  | 180 m <sup>3</sup> /h | 180 m <sup>3</sup> /h |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.92                  | 0.96                  |
| WTOL                                                | 65 °C                 | 65 °C                 |
| Poff                                                | 3 W                   | 3 W                   |
| PTO                                                 | 20 W                  | 20 W                  |
| PSB                                                 | 20 W                  | 20 W                  |
| PCK                                                 | 0 W                   | 0 W                   |
| Supplementary Heater: Type of energy input          | Electricity           | Electricity           |
| Supplementary Heater: PSUP                          | 0.90 kW               | 0.90 kW               |
| Annual energy consumption Qhe                       | 2389 kWh              | 3105 kWh              |

#### EN 12102-1 | Warmer Climate

|                          | Low temperature | Medium temperature |
|--------------------------|-----------------|--------------------|
| Sound power level indoor | 44 dB(A)        | 44 dB(A)           |

#### EN 14825 | Warmer Climate

|               | Low temperature | Medium temperature |
|---------------|-----------------|--------------------|
| $\eta_s$      | 174 %           | 133 %              |
| Prated        | 4.50 kW         | 4.50 kW            |
| SCOP          | 4.43            | 3.40               |
| Tbiv          | 5 °C            | 4 °C               |
| TOL           | 2 °C            | 2 °C               |
| Pdh Tj = +2°C | 3.60 kW         | 3.60 kW            |
| COP Tj = +2°C | 3.10            | 2.30               |
| Pdh Tj = +7°C | 2.90 kW         | 2.90 kW            |

|                                                     |                       |                       |
|-----------------------------------------------------|-----------------------|-----------------------|
| COP Tj = +7°C                                       | 3.90                  | 3.00                  |
| Pdh Tj = 12°C                                       | 1.50 kW               | 1.70 kW               |
| COP Tj = 12°C                                       | 5.90                  | 4.30                  |
| Pdh Tj = Tbiv                                       | 3.60 kW               | 3.90 kW               |
| COP Tj = Tbiv                                       | 3.30                  | 2.30                  |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 3.60 kW               | 3.60 kW               |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 3.10                  | 2.30                  |
| Rated airflow rate                                  | 180 m <sup>3</sup> /h | 180 m <sup>3</sup> /h |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.94                  | 0.97                  |
| WTOL                                                | 60 °C                 | 60 °C                 |
| Poff                                                | 3 W                   | 3 W                   |
| PTO                                                 | 20 W                  | 20 W                  |
| PSB                                                 | 20 W                  | 20 W                  |
| PCK                                                 | 0 W                   | 0 W                   |
| Supplementary Heater: Type of energy input          | Electricity           | Electricity           |
| Supplementary Heater: PSUP                          | 0.90 kW               | 0.90 kW               |
| Annual energy consumption Qhe                       | 1359 kWh              | 1766 kWh              |