

## Subtype Fx70

|                     |                        |
|---------------------|------------------------|
| Certificate Holder  | Nibe AB                |
| Address             | Box 14                 |
| ZIP                 | S-28521                |
| City                | Markaryd               |
| Country             | SE                     |
| Certification Body  | RISE CERT              |
| Subtype title       | Fx70                   |
| Registration number | 012-036                |
| Heat Pump Type      | Exhaust Air/Water      |
| Refrigerant         | R290                   |
| Mass of Refrigerant | 0.4 kg                 |
| Certification Date  | 15.06.2017             |
| Testing basis       | HP Keymark Scheme 2017 |

## Model F370 1x230

|                                     |                          |
|-------------------------------------|--------------------------|
| Model name                          | F370 1x230               |
| Application                         | Heating + DHW + low temp |
| Units                               | Indoor                   |
| Climate zone (for heating)          | 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 $\eta_{DHW}$         | 75 %        |
| COP                             | 1.90        |
| Heating up time                 | 07:16 h:min |
| Standby power input             | 85.0 W      |
| Reference hot water temperature | 50.2 °C     |
| Mixed water at 40°C             | 217 l       |

### EN 16147 | Colder Climate

|                                 |             |
|---------------------------------|-------------|
| Declared load profile           | L           |
| Efficiency $\eta_{DHW}$         | 75 %        |
| COP                             | 1.90        |
| Heating up time                 | 07:16 h:min |
| Standby power input             | 85.0 W      |
| Reference hot water temperature | 50.2 °C     |
| Mixed water at 40°C             | 217 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 | 2.18 kW         | 1.86 kW            |
| El input    | 0.55 kW         | 0.68 kW            |
| COP         | 3.93            | 2.74               |

### EN 12102-1 | Average Climate

|                          | Low temperature | Medium temperature |
|--------------------------|-----------------|--------------------|
| Sound power level indoor | 47 dB(A)        | 47 dB(A)           |

### EN 14825 | Average Climate

|                                                     | Low temperature       | Medium temperature    |
|-----------------------------------------------------|-----------------------|-----------------------|
| $\eta_s$                                            | 131 %                 | 110 %                 |
| Prated                                              | 2.60 kW               | 2.60 kW               |
| SCOP                                                | 3.35                  | 2.82                  |
| Tbiv                                                | -2 °C                 | -2 °C                 |
| TOL                                                 | -10 °C                | -10 °C                |
| Pdh Tj = -7°C                                       | 1.70 kW               | 1.70 kW               |
| COP Tj = -7°C                                       | 3.78                  | 2.72                  |
| Pdh Tj = +2°C                                       | 1.70 kW               | 1.70 kW               |
| COP Tj = +2°C                                       | 3.98                  | 3.22                  |
| Pdh Tj = +7°C                                       | 1.70 kW               | 1.70 kW               |
| COP Tj = +7°C                                       | 1.96                  | 3.37                  |
| Pdh Tj = 12°C                                       | 1.70 kW               | 1.70 kW               |
| COP Tj = 12°C                                       | 3.65                  | 3.28                  |
| Pdh Tj = Tbiv                                       | 1.70 kW               | 1.70 kW               |
| COP Tj = Tbiv                                       | 3.91                  | 3.04                  |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 1.70 kW               | 1.70 kW               |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 3.71                  | 2.56                  |
| 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 | 0.95                  | 0.96                  |
| WTOL                                                | 65 °C                 | 65 °C                 |
| Poff                                                | 2 W                   | 2 W                   |
| PTO                                                 | 20 W                  | 20 W                  |
| PSB                                                 | 15 W                  | 15 W                  |
| PCK                                                 | 24 W                  | 24 W                  |
| Supplementary Heater: Type of energy input          | Electricity           | Electricity           |
| Supplementary Heater: PSUP                          | 0.90 kW               | 0.90 kW               |
| Annual energy consumption Qhe                       | 1598 kWh              | 1898 kWh              |

#### EN 12102-1 | Colder Climate

|                          | Low temperature | Medium temperature |
|--------------------------|-----------------|--------------------|
| Sound power level indoor | 47 dB(A)        | 47 dB(A)           |

#### EN 14825 | Colder Climate

|               | Low temperature | Medium temperature |
|---------------|-----------------|--------------------|
| $\eta_s$      | 139 %           | 116 %              |
| Prated        | 2.60 kW         | 2.60 kW            |
| SCOP          | 3.55            | 2.97               |
| Tbiv          | -10 °C          | -10 °C             |
| TOL           | -22 °C          | -22 °C             |
| Pdh Tj = -7°C | 1.70 kW         | 1.70 kW            |
| COP Tj = -7°C | 4.04            | 3.16               |
| Pdh Tj = +2°C | 1.70 kW         | 1.70 kW            |

|                                                     |                       |                       |
|-----------------------------------------------------|-----------------------|-----------------------|
| COP Tj = +2°C                                       | 3.99                  | 3.34                  |
| Pdh Tj = +7°C                                       | 1.70 kW               | 1.70 kW               |
| COP Tj = +7°C                                       | 3.88                  | 3.41                  |
| Pdh Tj = 12°C                                       | 1.70 kW               | 1.70 kW               |
| COP Tj = 12°C                                       | 3.35                  | 3.11                  |
| Pdh Tj = Tbiv                                       | 1.70 kW               | 1.70 kW               |
| COP Tj = Tbiv                                       | 4.00                  | 3.07                  |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 1.70 kW               | 1.70 kW               |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 3.71                  | 2.56                  |
| 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 | 0.95                  | 0.96                  |
| WTOL                                                | 65 °C                 | 65 °C                 |
| Poff                                                | 2 W                   | 2 W                   |
| PTO                                                 | 20 W                  | 20 W                  |
| PSB                                                 | 15 W                  | 15 W                  |
| PCK                                                 | 24 W                  | 24 W                  |
| Supplementary Heater: Type of energy input          | Electricity           | Electricity           |
| Supplementary Heater: PSUP                          | 0.90 kW               | 0.90 kW               |
| Annual energy consumption Qhe                       | 1808 kWh              | 2162 kWh              |

## Model F370 3x400

|                                     |                          |
|-------------------------------------|--------------------------|
| Model name                          | F370 3x400               |
| Application                         | Heating + DHW + low temp |
| Units                               | Indoor                   |
| Climate zone (for heating)          | 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 $\eta_{DHW}$         | 75 %        |
| COP                             | 1.90        |
| Heating up time                 | 07:16 h:min |
| Standby power input             | 85.0 W      |
| Reference hot water temperature | 50.2 °C     |
| Mixed water at 40°C             | 217 l       |

### EN 16147 | Colder Climate

|                                 |             |
|---------------------------------|-------------|
| Declared load profile           | L           |
| Efficiency $\eta_{DHW}$         | 75 %        |
| COP                             | 1.90        |
| Heating up time                 | 07:16 h:min |
| Standby power input             | 85.0 W      |
| Reference hot water temperature | 50.2 °C     |
| Mixed water at 40°C             | 217 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 | 2.18 kW         | 1.86 kW            |
| El input    | 0.55 kW         | 0.68 kW            |
| COP         | 3.93            | 2.74               |

### EN 12102-1 | Average Climate

|                          | Low temperature | Medium temperature |
|--------------------------|-----------------|--------------------|
| Sound power level indoor | 47 dB(A)        | 47 dB(A)           |

### EN 14825 | Average Climate

|                                                     | Low temperature       | Medium temperature    |
|-----------------------------------------------------|-----------------------|-----------------------|
| $\eta_s$                                            | 131 %                 | 110 %                 |
| Prated                                              | 2.60 kW               | 2.60 kW               |
| SCOP                                                | 3.35                  | 2.82                  |
| Tbiv                                                | -2 °C                 | -2 °C                 |
| TOL                                                 | -10 °C                | -10 °C                |
| Pdh Tj = -7°C                                       | 1.70 kW               | 1.70 kW               |
| COP Tj = -7°C                                       | 3.78                  | 2.72                  |
| Pdh Tj = +2°C                                       | 1.70 kW               | 1.70 kW               |
| COP Tj = +2°C                                       | 3.98                  | 3.22                  |
| Pdh Tj = +7°C                                       | 1.70 kW               | 1.70 kW               |
| COP Tj = +7°C                                       | 1.96                  | 3.37                  |
| Pdh Tj = 12°C                                       | 1.70 kW               | 1.70 kW               |
| COP Tj = 12°C                                       | 3.65                  | 3.28                  |
| Pdh Tj = Tbiv                                       | 1.70 kW               | 1.70 kW               |
| COP Tj = Tbiv                                       | 3.91                  | 3.04                  |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 1.70 kW               | 1.70 kW               |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 3.71                  | 2.56                  |
| 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 | 0.95                  | 0.96                  |
| WTOL                                                | 65 °C                 | 65 °C                 |
| Poff                                                | 2 W                   | 2 W                   |
| PTO                                                 | 20 W                  | 20 W                  |
| PSB                                                 | 15 W                  | 15 W                  |
| PCK                                                 | 24 W                  | 24 W                  |
| Supplementary Heater: Type of energy input          | Electricity           | Electricity           |
| Supplementary Heater: PSUP                          | 0.90 kW               | 0.90 kW               |
| Annual energy consumption Qhe                       | 1598 kWh              | 1898 kWh              |

#### EN 12102-1 | Colder Climate

|                          | Low temperature | Medium temperature |
|--------------------------|-----------------|--------------------|
| Sound power level indoor | 47 dB(A)        | 47 dB(A)           |

#### EN 14825 | Colder Climate

|               | Low temperature | Medium temperature |
|---------------|-----------------|--------------------|
| $\eta_s$      | 139 %           | 116 %              |
| Prated        | 2.60 kW         | 2.60 kW            |
| SCOP          | 3.55            | 2.97               |
| Tbiv          | -10 °C          | -10 °C             |
| TOL           | -22 °C          | -22 °C             |
| Pdh Tj = -7°C | 1.70 kW         | 1.70 kW            |
| COP Tj = -7°C | 4.04            | 3.16               |
| Pdh Tj = +2°C | 1.70 kW         | 1.70 kW            |

|                                                     |             |             |
|-----------------------------------------------------|-------------|-------------|
| COP Tj = +2°C                                       | 3.99        | 3.34        |
| Pdh Tj = +7°C                                       | 1.70 kW     | 1.70 kW     |
| COP Tj = +7°C                                       | 3.88        | 3.41        |
| Pdh Tj = 12°C                                       | 1.70 kW     | 1.70 kW     |
| COP Tj = 12°C                                       | 3.35        | 3.11        |
| Pdh Tj = Tbiv                                       | 1.70 kW     | 1.70 kW     |
| COP Tj = Tbiv                                       | 4.00        | 3.07        |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 1.70 kW     | 1.70 kW     |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 3.71        | 2.56        |
| Rated airflow rate                                  | 180 m³/h    | 180 m³/h    |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.95        | 0.96        |
| WTOL                                                | 65 °C       | 65 °C       |
| Poff                                                | 2 W         | 2 W         |
| PTO                                                 | 20 W        | 20 W        |
| PSB                                                 | 15 W        | 15 W        |
| PCK                                                 | 24 W        | 24 W        |
| Supplementary Heater: Type of energy input          | Electricity | Electricity |
| Supplementary Heater: PSUP                          | 0.90 kW     | 0.90 kW     |
| Annual energy consumption Qhe                       | 1808 kWh    | 2162 kWh    |

## Model F470 1x230

|                                     |                          |
|-------------------------------------|--------------------------|
| Model name                          | F470 1x230               |
| Application                         | Heating + DHW + low temp |
| Units                               | Indoor                   |
| Climate zone (for heating)          | 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 $\eta_{DHW}$         | 79 %        |
| COP                             | 2.00        |
| Heating up time                 | 07:16 h:min |
| Standby power input             | 65.0 W      |
| Reference hot water temperature | 50.2 °C     |
| Mixed water at 40°C             | 217 l       |

### EN 16147 | Colder Climate

|                                 |             |
|---------------------------------|-------------|
| Declared load profile           | L           |
| Efficiency $\eta_{DHW}$         | 79 %        |
| COP                             | 2.00        |
| Heating up time                 | 07:16 h:min |
| Standby power input             | 65.0 W      |
| Reference hot water temperature | 50.2 °C     |
| Mixed water at 40°C             | 217 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 | 2.18 kW         | 1.86 kW            |
| El input    | 0.55 kW         | 0.68 kW            |
| COP         | 3.93            | 2.74               |

### EN 12102-1 | Average Climate

|                          | Low temperature | Medium temperature |
|--------------------------|-----------------|--------------------|
| Sound power level indoor | 52 dB(A)        | 52 dB(A)           |

### EN 14825 | Average Climate

|                                                     | Low temperature       | Medium temperature    |
|-----------------------------------------------------|-----------------------|-----------------------|
| $\eta_s$                                            | 140 %                 | 116 %                 |
| Prated                                              | 2.60 kW               | 2.60 kW               |
| SCOP                                                | 3.57                  | 2.97                  |
| Tbiv                                                | -2 °C                 | -2 °C                 |
| TOL                                                 | -10 °C                | -10 °C                |
| Pdh Tj = -7°C                                       | 1.70 kW               | 1.70 kW               |
| COP Tj = -7°C                                       | 3.78                  | 2.72                  |
| Pdh Tj = +2°C                                       | 1.70 kW               | 1.70 kW               |
| COP Tj = +2°C                                       | 3.98                  | 3.22                  |
| Pdh Tj = +7°C                                       | 1.70 kW               | 1.70 kW               |
| COP Tj = +7°C                                       | 1.96                  | 3.37                  |
| Pdh Tj = 12°C                                       | 1.70 kW               | 1.70 kW               |
| COP Tj = 12°C                                       | 3.65                  | 3.28                  |
| Pdh Tj = Tbiv                                       | 1.70 kW               | 1.70 kW               |
| COP Tj = Tbiv                                       | 3.91                  | 3.04                  |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 1.70 kW               | 1.70 kW               |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 3.71                  | 2.56                  |
| 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 | 0.95                  | 0.96                  |
| WTOL                                                | 65 °C                 | 65 °C                 |
| Poff                                                | 2 W                   | 2 W                   |
| PTO                                                 | 20 W                  | 20 W                  |
| PSB                                                 | 15 W                  | 15 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                       | 1505 kWh              | 1806 kWh              |

#### EN 12102-1 | Colder Climate

|                          | Low temperature | Medium temperature |
|--------------------------|-----------------|--------------------|
| Sound power level indoor | 52 dB(A)        | 52 dB(A)           |

#### EN 14825 | Colder Climate

|               | Low temperature | Medium temperature |
|---------------|-----------------|--------------------|
| $\eta_s$      | 145 %           | 120 %              |
| Prated        | 2.60 kW         | 2.60 kW            |
| SCOP          | 3.70            | 3.07               |
| Tbiv          | -10 °C          | -10 °C             |
| TOL           | -22 °C          | -22 °C             |
| Pdh Tj = -7°C | 1.70 kW         | 1.70 kW            |
| COP Tj = -7°C | 4.04            | 3.16               |
| Pdh Tj = +2°C | 1.70 kW         | 1.70 kW            |

|                                                     |             |             |
|-----------------------------------------------------|-------------|-------------|
| COP Tj = +2°C                                       | 3.99        | 3.34        |
| Pdh Tj = +7°C                                       | 1.70 kW     | 1.70 kW     |
| COP Tj = +7°C                                       | 3.88        | 3.41        |
| Pdh Tj = 12°C                                       | 1.70 kW     | 1.70 kW     |
| COP Tj = 12°C                                       | 3.35        | 3.11        |
| Pdh Tj = Tbiv                                       | 1.70 kW     | 1.70 kW     |
| COP Tj = Tbiv                                       | 4.00        | 3.07        |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 1.70 kW     | 1.70 kW     |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 3.71        | 2.56        |
| Rated airflow rate                                  | 180 m³/h    | 180 m³/h    |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.95        | 0.96        |
| WTOL                                                | 65 °C       | 65 °C       |
| Poff                                                | 2 W         | 2 W         |
| PTO                                                 | 20 W        | 20 W        |
| PSB                                                 | 15 W        | 15 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                       | 1737 kWh    | 2091 kWh    |

## Model F470 3x400

|                                     |                          |
|-------------------------------------|--------------------------|
| Model name                          | F470 3x400               |
| Application                         | Heating + DHW + low temp |
| Units                               | Indoor                   |
| Climate zone (for heating)          | 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 $\eta_{DHW}$         | 79 %        |
| COP                             | 2.00        |
| Heating up time                 | 07:16 h:min |
| Standby power input             | 65.0 W      |
| Reference hot water temperature | 50.2 °C     |
| Mixed water at 40°C             | 217 l       |

### EN 16147 | Colder Climate

|                                 |             |
|---------------------------------|-------------|
| Declared load profile           | L           |
| Efficiency $\eta_{DHW}$         | 79 %        |
| COP                             | 2.00        |
| Heating up time                 | 07:16 h:min |
| Standby power input             | 65.0 W      |
| Reference hot water temperature | 50.2 °C     |
| Mixed water at 40°C             | 217 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 | 2.18 kW         | 1.86 kW            |
| El input    | 0.55 kW         | 0.68 kW            |
| COP         | 3.93            | 2.74               |

### EN 12102-1 | Average Climate

|                          | Low temperature | Medium temperature |
|--------------------------|-----------------|--------------------|
| Sound power level indoor | 52 dB(A)        | 52 dB(A)           |

### EN 14825 | Average Climate

|                                                     | Low temperature       | Medium temperature    |
|-----------------------------------------------------|-----------------------|-----------------------|
| $\eta_s$                                            | 140 %                 | 116 %                 |
| Prated                                              | 2.60 kW               | 2.60 kW               |
| SCOP                                                | 3.57                  | 2.97                  |
| Tbiv                                                | -2 °C                 | -2 °C                 |
| TOL                                                 | -10 °C                | -10 °C                |
| Pdh Tj = -7°C                                       | 1.70 kW               | 1.70 kW               |
| COP Tj = -7°C                                       | 3.78                  | 2.72                  |
| Pdh Tj = +2°C                                       | 1.70 kW               | 1.70 kW               |
| COP Tj = +2°C                                       | 3.98                  | 3.22                  |
| Pdh Tj = +7°C                                       | 1.70 kW               | 1.70 kW               |
| COP Tj = +7°C                                       | 1.96                  | 3.37                  |
| Pdh Tj = 12°C                                       | 1.70 kW               | 1.70 kW               |
| COP Tj = 12°C                                       | 3.65                  | 3.28                  |
| Pdh Tj = Tbiv                                       | 1.70 kW               | 1.70 kW               |
| COP Tj = Tbiv                                       | 3.91                  | 3.04                  |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 1.70 kW               | 1.70 kW               |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 3.71                  | 2.56                  |
| 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 | 0.95                  | 0.96                  |
| WTOL                                                | 65 °C                 | 65 °C                 |
| Poff                                                | 2 W                   | 2 W                   |
| PTO                                                 | 20 W                  | 20 W                  |
| PSB                                                 | 15 W                  | 15 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                       | 1505 kWh              | 1806 kWh              |

#### EN 12102-1 | Colder Climate

|                          | Low temperature | Medium temperature |
|--------------------------|-----------------|--------------------|
| Sound power level indoor | 52 dB(A)        | 52 dB(A)           |

#### EN 14825 | Colder Climate

|               | Low temperature | Medium temperature |
|---------------|-----------------|--------------------|
| $\eta_s$      | 145 %           | 120 %              |
| Prated        | 2.60 kW         | 2.60 kW            |
| SCOP          | 3.70            | 3.07               |
| Tbiv          | -10 °C          | -10 °C             |
| TOL           | -22 °C          | -22 °C             |
| Pdh Tj = -7°C | 1.70 kW         | 1.70 kW            |
| COP Tj = -7°C | 4.04            | 3.16               |
| Pdh Tj = +2°C | 1.70 kW         | 1.70 kW            |

|                                                     |             |             |
|-----------------------------------------------------|-------------|-------------|
| COP Tj = +2°C                                       | 3.99        | 3.34        |
| Pdh Tj = +7°C                                       | 1.70 kW     | 1.70 kW     |
| COP Tj = +7°C                                       | 3.88        | 3.41        |
| Pdh Tj = 12°C                                       | 1.70 kW     | 1.70 kW     |
| COP Tj = 12°C                                       | 3.35        | 3.11        |
| Pdh Tj = Tbiv                                       | 1.70 kW     | 1.70 kW     |
| COP Tj = Tbiv                                       | 4.00        | 3.07        |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 1.70 kW     | 1.70 kW     |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 3.71        | 2.56        |
| Rated airflow rate                                  | 180 m³/h    | 180 m³/h    |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.95        | 0.96        |
| WTOL                                                | 65 °C       | 65 °C       |
| Poff                                                | 2 W         | 2 W         |
| PTO                                                 | 20 W        | 20 W        |
| PSB                                                 | 15 W        | 15 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                       | 1737 kWh    | 2091 kWh    |