

## Subtype S1x55-16

|                     |                             |
|---------------------|-----------------------------|
| Certificate Holder  | Nibe AB                     |
| Address             | Box 14                      |
| ZIP                 | S-28521                     |
| City                | Markaryd                    |
| Country             | SE                          |
| Certification Body  | RISE CERT                   |
| Subtype title       | S1x55-16                    |
| Registration number | 012-SC0192-19               |
| Heat Pump Type      | Brine/Water and Water/Water |
| Refrigerant         | R407c                       |
| Mass of Refrigerant | 2.2 kg                      |
| Certification Date  | 05.08.2019                  |

| Model S1255-16                             |                          |                    |
|--------------------------------------------|--------------------------|--------------------|
| Model name                                 | S1255-16                 |                    |
| 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                       |                    |
| Brine/Water                                |                          |                    |
| EN 16147   Average Climate                 |                          |                    |
| Declared load profile                      | XL                       |                    |
| Efficiency $\eta_{DHW}$                    | 98 %                     |                    |
| COP                                        | 2.45                     |                    |
| Heating up time                            | 01:04 h:min              |                    |
| Standby power input                        | 50.0 W                   |                    |
| Reference hot water temperature            | 50.0 °C                  |                    |
| Mixed water at 40°C                        | 240 l                    |                    |
| EN 16147   Colder Climate                  |                          |                    |
| Declared load profile                      | XL                       |                    |
| Efficiency $\eta_{DHW}$                    | 98 %                     |                    |
| COP                                        | 2.45                     |                    |
| Heating up time                            | 01:04 h:min              |                    |
| Standby power input                        | 50.0 W                   |                    |
| Reference hot water temperature            | 50.0 °C                  |                    |
| Mixed water at 40°C                        | 240 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                                | 8.89 kW                  | 8.54 kW            |
| El input                                   | 1.83 kW                  | 2.72 kW            |
| COP                                        | 4.85                     | 3.14               |
| EN 12102-1   Average Climate               |                          |                    |
|                                            | Low temperature          | Medium temperature |
| Sound power level indoor                   | 42 dB(A)                 | 42 dB(A)           |
| EN 14825   Average Climate                 |                          |                    |

|                                                     | Low temperature | Medium temperature |
|-----------------------------------------------------|-----------------|--------------------|
| $\eta_s$                                            | 199 %           | 154 %              |
| Prated                                              | 16.00 kW        | 16.00 kW           |
| SCOP                                                | 5.18            | 4.05               |
| Tbiv                                                | -10 °C          | -10 °C             |
| TOL                                                 | -10 °C          | -10 °C             |
| Pdh Tj = -7°C                                       | 14.20 kW        | 14.20 kW           |
| COP Tj = -7°C                                       | 4.19            | 3.00               |
| Pdh Tj = +2°C                                       | 8.70 kW         | 8.70 kW            |
| COP Tj = +2°C                                       | 5.26            | 4.10               |
| Pdh Tj = +7°C                                       | 5.70 kW         | 5.60 kW            |
| COP Tj = +7°C                                       | 6.06            | 4.90               |
| Pdh Tj = 12°C                                       | 5.80 kW         | 5.50 kW            |
| COP Tj = 12°C                                       | 5.85            | 5.00               |
| Pdh Tj = Tbiv                                       | 15.90 kW        | 16.00 kW           |
| COP Tj = Tbiv                                       | 3.90            | 2.80               |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 15.90 kW        | 16.00 kW           |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 3.90            | 2.80               |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.98            | 0.99               |
| WTOL                                                | 65 °C           | 65 °C              |
| Poff                                                | 2 W             | 2 W                |
| PTO                                                 | 30 W            | 30 W               |
| PSB                                                 | 7 W             | 7 W                |
| PCK                                                 | 30 W            | 30 W               |
| Supplementary Heater: Type of energy input          | Electricity     | Electricity        |
| Supplementary Heater: PSUP                          | 0.10 kW         | 0.00 kW            |
| Annual energy consumption Qhe                       | 6373 kWh        | 8167 kWh           |

#### EN 12102-1 | Colder Climate

|                          | Low temperature | Medium temperature |
|--------------------------|-----------------|--------------------|
| Sound power level indoor | 42 dB(A)        | 42 dB(A)           |

#### EN 14825 | Colder Climate

|               | Low temperature | Medium temperature |
|---------------|-----------------|--------------------|
| $\eta_s$      | 211 %           | 159 %              |
| Prated        | 16.00 kW        | 16.00 kW           |
| SCOP          | 5.48            | 4.18               |
| Tbiv          | -22 °C          | -22 °C             |
| TOL           | -22 °C          | -22 °C             |
| Pdh Tj = -7°C | 9.80 kW         | 9.80 kW            |
| COP Tj = -7°C | 5.10            | 3.80               |
| Pdh Tj = +2°C | 6.00 kW         | 6.00 kW            |
| COP Tj = +2°C | 6.10            | 4.70               |

|                                                     |             |             |
|-----------------------------------------------------|-------------|-------------|
| Pdh Tj = +7°C                                       | 5.70 kW     | 5.60 kW     |
| COP Tj = +7°C                                       | 6.10        | 5.00        |
| Pdh Tj = 12°C                                       | 5.70 kW     | 5.60 kW     |
| COP Tj = 12°C                                       | 5.60        | 5.00        |
| Pdh Tj = Tbiv                                       | 15.90 kW    | 16.00 kW    |
| COP Tj = Tbiv                                       | 3.90        | 2.80        |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 15.90 kW    | 16.00 kW    |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 3.90        | 2.80        |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.99        | 0.99        |
| WTOL                                                | 65 °C       | 65 °C       |
| Poff                                                | 2 W         | 2 W         |
| PTO                                                 | 30 W        | 30 W        |
| PSB                                                 | 7 W         | 7 W         |
| PCK                                                 | 30 W        | 30 W        |
| Supplementary Heater: Type of energy input          | Electricity | Electricity |
| Supplementary Heater: PSUP                          | 0.10 kW     | 0.00 kW     |
| Annual energy consumption Qhe                       | 7218 kWh    | 9434 kWh    |

### Water/Water

#### EN 16147 | Average Climate

|                                 |             |
|---------------------------------|-------------|
| Declared load profile           | XL          |
| Efficiency $\eta_{DHW}$         | 113 %       |
| COP                             | 2.82        |
| Heating up time                 | 00:58 h:min |
| Standby power input             | 45.0 W      |
| Reference hot water temperature | 45.0 °C     |
| Mixed water at 40°C             | 235 l       |

#### EN 16147 | Colder Climate

|                                 |             |
|---------------------------------|-------------|
| Declared load profile           | XL          |
| Efficiency $\eta_{DHW}$         | 113 %       |
| COP                             | 2.82        |
| Heating up time                 | 00:58 h:min |
| Standby power input             | 45.0 W      |
| Reference hot water temperature | 45.0 °C     |
| Mixed water at 40°C             | 235 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 | 11.20 kW        | 10.90 kW           |
| El input    | 1.84 kW         | 2.79 kW            |
| COP         | 6.11            | 3.91               |

#### EN 12102-1 | Average Climate

|                          | Low temperature | Medium temperature |
|--------------------------|-----------------|--------------------|
| Sound power level indoor | 42 dB(A)        | 42 dB(A)           |

#### EN 14825 | Average Climate

|                                                     | Low temperature | Medium temperature |
|-----------------------------------------------------|-----------------|--------------------|
| $\eta_s$                                            | 265 %           | 202 %              |
| Prated                                              | 19.00 kW        | 19.00 kW           |
| SCOP                                                | 6.47            | 5.00               |
| Tbiv                                                | -10 °C          | -10 °C             |
| TOL                                                 | -10 °C          | -10 °C             |
| Pdh Tj = -7°C                                       | 16.90 kW        | 16.90 kW           |
| COP Tj = -7°C                                       | 5.34            | 3.82               |
| Pdh Tj = +2°C                                       | 10.30 kW        | 10.30 kW           |
| COP Tj = +2°C                                       | 6.61            | 5.08               |
| Pdh Tj = +7°C                                       | 7.20 kW         | 7.00 kW            |
| COP Tj = +7°C                                       | 7.50            | 5.93               |
| Pdh Tj = 12°C                                       | 7.30 kW         | 7.10 kW            |
| COP Tj = 12°C                                       | 7.61            | 6.28               |
| Pdh Tj = Tbiv                                       | 19.00 kW        | 19.00 kW           |
| COP Tj = Tbiv                                       | 5.01            | 3.51               |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 19.00 kW        | 19.00 kW           |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 5.01            | 3.51               |
| 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                                                 | 45 W            | 35 W               |
| PSB                                                 | 10 W            | 7 W                |
| PCK                                                 | 30 W            | 30 W               |
| Supplementary Heater: Type of energy input          | Electricity     | Electricity        |
| Supplementary Heater: PSUP                          | 0.00 kW         | 0.00 kW            |
| Annual energy consumption Qhe                       | 6070 kWh        | 7834 kWh           |

#### EN 12102-1 | Colder Climate

|                          | Low temperature | Medium temperature |
|--------------------------|-----------------|--------------------|
| Sound power level indoor | 42 dB(A)        | 42 dB(A)           |

#### EN 14825 | Colder Climate

|                                                     | Low temperature | Medium temperature |
|-----------------------------------------------------|-----------------|--------------------|
| $\eta_s$                                            | 265 %           | 202 %              |
| Prated                                              | 19.00 kW        | 19.00 kW           |
| SCOP                                                | 6.82            | 5.25               |
| Tbiv                                                | -22 °C          | -22 °C             |
| TOL                                                 | -22 °C          | -22 °C             |
| Pdh Tj = -7°C                                       | 11.60 kW        | 11.60 kW           |
| COP Tj = -7°C                                       | 6.51            | 4.82               |
| Pdh Tj = +2°C                                       | 7.30 kW         | 7.10 kW            |
| COP Tj = +2°C                                       | 7.56            | 5.87               |
| Pdh Tj = +7°C                                       | 7.30 kW         | 7.00 kW            |
| COP Tj = +7°C                                       | 7.62            | 6.24               |
| Pdh Tj = 12°C                                       | 7.30 kW         | 7.00 kW            |
| COP Tj = 12°C                                       | 7.46            | 6.47               |
| Pdh Tj = Tbiv                                       | 19.00 kW        | 19.00 kW           |
| COP Tj = Tbiv                                       | 5.01            | 3.51               |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 19.00 kW        | 19.00 kW           |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 5.01            | 3.51               |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.96            | 0.98               |
| WTOL                                                | 65 °C           | 65 °C              |
| Poff                                                | 2 W             | 2 W                |
| PTO                                                 | 45 W            | 35 W               |
| PSB                                                 | 10 W            | 7 W                |
| PCK                                                 | 30 W            | 30 W               |
| Supplementary Heater: Type of energy input          | Electricity     | Electricity        |
| Supplementary Heater: PSUP                          | 0.00 kW         | 0.00 kW            |
| Annual energy consumption Qhe                       | 6861 kWh        | 8907 kWh           |

## Model S1155-16

|                                     |                       |
|-------------------------------------|-----------------------|
| Model name                          | S1155-16              |
| Application                         | Heating (medium 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          |

## Brine/Water

### 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 | 8.89 kW         | 8.54 kW            |
| El input    | 1.83 kW         | 2.72 kW            |
| COP         | 4.85            | 3.14               |

### EN 12102-1 | Average Climate

|                          | Low temperature | Medium temperature |
|--------------------------|-----------------|--------------------|
| Sound power level indoor | 42 dB(A)        | 42 dB(A)           |

### EN 14825 | Average Climate

|               | Low temperature | Medium temperature |
|---------------|-----------------|--------------------|
| $\eta_s$      | 199 %           | 154 %              |
| Prated        | 16.00 kW        | 16.00 kW           |
| SCOP          | 5.18            | 4.05               |
| Tbiv          | -10 °C          | -10 °C             |
| TOL           | -10 °C          | -10 °C             |
| Pdh Tj = -7°C | 14.20 kW        | 14.20 kW           |
| COP Tj = -7°C | 4.19            | 3.00               |
| Pdh Tj = +2°C | 8.70 kW         | 8.70 kW            |
| COP Tj = +2°C | 5.26            | 4.10               |
| Pdh Tj = +7°C | 5.70 kW         | 5.60 kW            |
| COP Tj = +7°C | 6.06            | 4.90               |
| Pdh Tj = 12°C | 5.80 kW         | 5.50 kW            |
| COP Tj = 12°C | 5.85            | 5.00               |
| Pdh Tj = Tbiv | 15.90 kW        | 16.00 kW           |
| COP Tj = Tbiv | 3.90            | 2.80               |

|                                                     |             |             |
|-----------------------------------------------------|-------------|-------------|
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 15.90 kW    | 16.00 kW    |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 3.90        | 2.80        |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.98        | 0.99        |
| WTOL                                                | 65 °C       | 65 °C       |
| Poff                                                | 2 W         | 2 W         |
| PTO                                                 | 30 W        | 30 W        |
| PSB                                                 | 7 W         | 7 W         |
| PCK                                                 | 30 W        | 30 W        |
| Supplementary Heater: Type of energy input          | Electricity | Electricity |
| Supplementary Heater: PSUP                          | 0.10 kW     | 0.00 kW     |
| Annual energy consumption Qhe                       | 6373 kWh    | 8167 kWh    |

#### EN 12102-1 | Colder Climate

|                          | Low temperature | Medium temperature |
|--------------------------|-----------------|--------------------|
| Sound power level indoor | 42 dB(A)        | 42 dB(A)           |

#### EN 14825 | Colder Climate

|                                                     | Low temperature | Medium temperature |
|-----------------------------------------------------|-----------------|--------------------|
| $\eta_s$                                            | 211 %           | 159 %              |
| Prated                                              | 16.00 kW        | 16.00 kW           |
| SCOP                                                | 5.48            | 4.18               |
| Tbiv                                                | -22 °C          | -22 °C             |
| TOL                                                 | -22 °C          | -22 °C             |
| Pdh Tj = -7°C                                       | 9.80 kW         | 9.80 kW            |
| COP Tj = -7°C                                       | 5.10            | 3.80               |
| Pdh Tj = +2°C                                       | 6.00 kW         | 6.00 kW            |
| COP Tj = +2°C                                       | 6.10            | 4.70               |
| Pdh Tj = +7°C                                       | 5.70 kW         | 5.60 kW            |
| COP Tj = +7°C                                       | 6.10            | 5.00               |
| Pdh Tj = 12°C                                       | 5.70 kW         | 5.60 kW            |
| COP Tj = 12°C                                       | 5.60            | 5.00               |
| Pdh Tj = Tbiv                                       | 15.90 kW        | 16.00 kW           |
| COP Tj = Tbiv                                       | 3.90            | 2.80               |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 15.90 kW        | 16.00 kW           |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 3.90            | 2.80               |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.99            | 0.99               |
| WTOL                                                | 65 °C           | 65 °C              |
| Poff                                                | 2 W             | 2 W                |
| PTO                                                 | 30 W            | 30 W               |
| PSB                                                 | 7 W             | 7 W                |



|                                                                                                                                 |                 |                    |
|---------------------------------------------------------------------------------------------------------------------------------|-----------------|--------------------|
| PCK                                                                                                                             | 30 W            | 30 W               |
| Supplementary Heater: Type of energy input                                                                                      | Electricity     | Electricity        |
| Supplementary Heater: PSUP                                                                                                      | 0.10 kW         | 0.00 kW            |
| Annual energy consumption Q <sub>he</sub>                                                                                       | 7218 kWh        | 9434 kWh           |
| Water/Water                                                                                                                     |                 |                    |
| 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                                                                                                                     | 11.20 kW        | 10.90 kW           |
| El input                                                                                                                        | 1.84 kW         | 2.79 kW            |
| COP                                                                                                                             | 6.11            | 3.91               |
| EN 12102-1   Average Climate                                                                                                    |                 |                    |
|                                                                                                                                 | Low temperature | Medium temperature |
| Sound power level indoor                                                                                                        | 42 dB(A)        | 42 dB(A)           |
| EN 14825   Average Climate                                                                                                      |                 |                    |
|                                                                                                                                 | Low temperature | Medium temperature |
| $\eta_s$                                                                                                                        | 265 %           | 202 %              |
| Prated                                                                                                                          | 19.00 kW        | 19.00 kW           |
| SCOP                                                                                                                            | 6.47            | 5.00               |
| T <sub>biv</sub>                                                                                                                | -10 °C          | -10 °C             |
| TOL                                                                                                                             | -10 °C          | -10 °C             |
| P <sub>d,h</sub> T <sub>j</sub> = -7°C                                                                                          | 16.90 kW        | 16.90 kW           |
| COP T <sub>j</sub> = -7°C                                                                                                       | 5.34            | 3.82               |
| P <sub>d,h</sub> T <sub>j</sub> = +2°C                                                                                          | 10.30 kW        | 10.30 kW           |
| COP T <sub>j</sub> = +2°C                                                                                                       | 6.61            | 5.08               |
| P <sub>d,h</sub> T <sub>j</sub> = +7°C                                                                                          | 7.20 kW         | 7.00 kW            |
| COP T <sub>j</sub> = +7°C                                                                                                       | 7.50            | 5.93               |
| P <sub>d,h</sub> T <sub>j</sub> = 12°C                                                                                          | 7.30 kW         | 7.10 kW            |
| COP T <sub>j</sub> = 12°C                                                                                                       | 7.61            | 6.28               |
| P <sub>d,h</sub> T <sub>j</sub> = T <sub>biv</sub>                                                                              | 19.00 kW        | 19.00 kW           |
| COP T <sub>j</sub> = T <sub>biv</sub>                                                                                           | 5.01            | 3.51               |
| P <sub>d,h</sub> T <sub>j</sub> = TOL or P <sub>d,h</sub> T <sub>j</sub> = T <sub>design,h</sub> if TOL < T <sub>design,h</sub> | 19.00 kW        | 19.00 kW           |
| COP T <sub>j</sub> = TOL or COP T <sub>j</sub> = T <sub>design,h</sub> if TOL < T <sub>design,h</sub>                           | 5.01            | 3.51               |
| C <sub>d,h</sub> T <sub>j</sub> = TOL or P <sub>d,h</sub> T <sub>j</sub> = T <sub>design,h</sub> if TOL < T <sub>design,h</sub> | 0.97            | 0.98               |
| WTOL                                                                                                                            | 65 °C           | 65 °C              |
| P <sub>off</sub>                                                                                                                | 2 W             | 2 W                |

|                                            |             |             |
|--------------------------------------------|-------------|-------------|
| PTO                                        | 45 W        | 35 W        |
| PSB                                        | 10 W        | 7 W         |
| PCK                                        | 30 W        | 30 W        |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP                 | 0.00 kW     | 0.00 kW     |
| Annual energy consumption Q <sub>he</sub>  | 6070 kWh    | 7834 kWh    |

#### EN 12102-1 | Colder Climate

|                          | Low temperature | Medium temperature |
|--------------------------|-----------------|--------------------|
| Sound power level indoor | 42 dB(A)        | 42 dB(A)           |

#### EN 14825 | Colder Climate

|                                                                                                                             | Low temperature | Medium temperature |
|-----------------------------------------------------------------------------------------------------------------------------|-----------------|--------------------|
| $\eta_s$                                                                                                                    | 265 %           | 202 %              |
| Prated                                                                                                                      | 19.00 kW        | 19.00 kW           |
| SCOP                                                                                                                        | 6.82            | 5.25               |
| T <sub>biv</sub>                                                                                                            | -22 °C          | -22 °C             |
| TOL                                                                                                                         | -22 °C          | -22 °C             |
| P <sub>dh</sub> T <sub>j</sub> = -7°C                                                                                       | 11.60 kW        | 11.60 kW           |
| COP T <sub>j</sub> = -7°C                                                                                                   | 6.51            | 4.82               |
| P <sub>dh</sub> T <sub>j</sub> = +2°C                                                                                       | 7.30 kW         | 7.10 kW            |
| COP T <sub>j</sub> = +2°C                                                                                                   | 7.56            | 5.87               |
| P <sub>dh</sub> T <sub>j</sub> = +7°C                                                                                       | 7.30 kW         | 7.00 kW            |
| COP T <sub>j</sub> = +7°C                                                                                                   | 7.62            | 6.24               |
| P <sub>dh</sub> T <sub>j</sub> = 12°C                                                                                       | 7.30 kW         | 7.00 kW            |
| COP T <sub>j</sub> = 12°C                                                                                                   | 7.46            | 6.47               |
| P <sub>dh</sub> T <sub>j</sub> = T <sub>biv</sub>                                                                           | 19.00 kW        | 19.00 kW           |
| COP T <sub>j</sub> = T <sub>biv</sub>                                                                                       | 5.01            | 3.51               |
| P <sub>dh</sub> T <sub>j</sub> = TOL or P <sub>dh</sub> T <sub>j</sub> = T <sub>designh</sub> if TOL < T <sub>designh</sub> | 19.00 kW        | 19.00 kW           |
| COP T <sub>j</sub> = TOL or COP T <sub>j</sub> = T <sub>designh</sub> if TOL < T <sub>designh</sub>                         | 5.01            | 3.51               |
| C <sub>dh</sub> T <sub>j</sub> = TOL or P <sub>dh</sub> T <sub>j</sub> = T <sub>designh</sub> if TOL < T <sub>designh</sub> | 0.96            | 0.98               |
| WTOL                                                                                                                        | 65 °C           | 65 °C              |
| P <sub>off</sub>                                                                                                            | 2 W             | 2 W                |
| PTO                                                                                                                         | 45 W            | 35 W               |
| PSB                                                                                                                         | 10 W            | 7 W                |
| PCK                                                                                                                         | 30 W            | 30 W               |
| Supplementary Heater: Type of energy input                                                                                  | Electricity     | Electricity        |
| Supplementary Heater: PSUP                                                                                                  | 0.00 kW         | 0.00 kW            |
| Annual energy consumption Q <sub>he</sub>                                                                                   | 6861 kWh        | 8907 kWh           |