

This information was generated by the HP KEYMARK database on 5 Mar 2021

|                     |                                    |          |             |
|---------------------|------------------------------------|----------|-------------|
| Summary of          | SWCV 62 Inverter                   | Reg. No. | 041-K001-12 |
| Certificate Holder  |                                    |          |             |
| Name                | ait-deutschland GmbH               |          |             |
| Address             | Industriestr. 3                    | Zip      | 95359       |
| City                | Kasendorf                          | Country  | Germany     |
| Certification Body  | BRE Global Limited                 |          |             |
| Subtype title       | SWCV 62 Inverter                   |          |             |
| Heat Pump Type      | Brine/Water                        |          |             |
| Refrigerant         | R407c                              |          |             |
| Mass Of Refrigerant | 1.16 kg                            |          |             |
| Certification Date  | 12.05.2017                         |          |             |
| Testing basis       | HP Keymark Scheme Transition Rules |          |             |

## Model: SWCV 62(H)(K)3

### General Data

|              |             |
|--------------|-------------|
| Power supply | 3x400V 50Hz |
|--------------|-------------|

## Heating

### EN 14511-2

|             | Low temperature | Medium temperature |
|-------------|-----------------|--------------------|
| Heat output | 3.32 kW         | 2.95 kW            |
| El input    | 0.68 kW         | 0.94 kW            |
| COP         | 4.86            | 3.13               |

### EN 14511-4

| Operating range outdoor exchanger/indoor exchanger lower limit/lower limit | passed |
|--|--------|
| Operating range outdoor exchanger/indoor exchanger upper limit/upper limit | passed |
| Shutting off the heat transfer medium flow                                 | passed |
| Complete power supply failure  | passed |

## Average Climate

### EN 12102-1

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

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**EN 14825**

|               | Low temperature | Medium temperature |
|---------------|-----------------|--------------------|
| $\eta_s$      | 199 %           | 150 %              |
| Prated        | 5.50 kW         | 5.50 kW            |
| SCOP          | 5.18            | 3.95               |
| Tbiv          | -10 °C          | -10 °C             |
| TOL           | -10 °C          | -10 °C             |
| Pdh Tj = -7°C | 5.00 kW         | 5.00 kW            |
| COP Tj = -7°C | 4.37            | 3.06               |
| Cdh           | 1.00            | 1.00               |
| Pdh Tj = +2°C | 3.10 kW         | 3.00 kW            |
| COP Tj = +2°C | 5.24            | 3.97               |
| Cdh           | 1.00            | 1.00               |
| Pdh Tj = +7°C | 2.00 kW         | 2.00 kW            |
| COP Tj = +7°C | 5.92            | 4.63               |
| Cdh           | 1.00            | 1.00               |
| Pdh Tj = 12°C | 1.30 kW         | 1.20 kW            |
| COP Tj = 12°C | 5.95            | 4.86               |
| Cdh           | 0.96            | 0.96               |
| Pdh Tj = Tbiv | 5.40 kW         | 5.40 kW            |
| COP Tj = Tbiv | 4.15            | 2.84               |

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|   |             |             |
|---|-------------|-------------|
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 5.40 kW     | 5.40 kW     |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 4.15        | 2.84        |
| Cdh   | 1.00        | 1.00        |
| WTOL  | 65 °C       | 65 °C       |
| Poff  | 2 W         | 2 W         |
| PTO   | 7 W         | 7 W         |
| PSB   | 7 W         | 7 W         |
| PCK   | 9 W         | 9 W         |
| Supplementary Heater: Type of energy input          | electricity | electricity |
| Supplementary Heater: PSUP                          | 0.00 kW     | 0.00 kW     |
| Annual energy consumption Qhe                       | 2192 kWh    | 2878 kWh    |

## Warmer Climate

| <b>EN 12102-1</b>        |                        |                           |
|--------------------------|------------------------|---------------------------|
|                          | <b>Low temperature</b> | <b>Medium temperature</b> |
| Sound power level indoor | 44 dB(A)               | 44 dB(A)                  |

| <b>EN 14825</b> |                        |                           |
|-----------------|------------------------|---------------------------|
|                 | <b>Low temperature</b> | <b>Medium temperature</b> |
| $\eta_s$        | 202 %                  | 151 %                     |
| Prated          | 5.50 kW                | 5.50 kW                   |

This information was generated by the HP KEYMARK database on 5 Mar 2021

|   |         |         |
|---|---------|---------|
| SCOP  | 5.24    | 3.97    |
| Tbiv  | 2 °C    | 2 °C    |
| TOL   | 2 °C    | 2 °C    |
| Pdh Tj = +2°C                                       | 5.40 kW | 5.40 kW |
| COP Tj = +2°C                                       | 4.15    | 2.84    |
| Cdh   | 1.00    | 1.00    |
| Pdh Tj = +7°C                                       | 3.60 kW | 3.60 kW |
| COP Tj = +7°C                                       | 5.00    | 3.59    |
| Cdh   | 1.00    | 1.00    |
| Pdh Tj = 12°C                                       | 1.70 kW | 1.70 kW |
| COP Tj = 12°C                                       | 6.15    | 4.86    |
| Cdh   | 1.00    | 1.00    |
| Pdh Tj = Tbiv                                       | 5.40 kW | 5.40 kW |
| COP Tj = Tbiv                                       | 4.15    | 2.84    |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 5.40 kW | 5.40 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 4.15    | 2.84    |
| Cdh   | 1.00    | 1.00    |
| WTOL  | 65 °C   | 65 °C   |
| Poff  | 2 W     | 2 W     |
| PTO   | 7 W     | 7 W     |
| PSB   | 7 W     | 7 W     |

This information was generated by the HP KEYMARK database on 5 Mar 2021

|  |             |             |
|--|-------------|-------------|
| PCK  | 9 W         | 9 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>  | 1402 kWh    | 1851 kWh    |

## Colder Climate

| <b>EN 12102-1</b>        |                        |                           |
|--------------------------|------------------------|---------------------------|
|                          | <b>Low temperature</b> | <b>Medium temperature</b> |
| Sound power level indoor | 44 dB(A)               | 44 dB(A)                  |

| <b>EN 14825</b>                       |                        |                           |
|---------------------------------------|------------------------|---------------------------|
|                                       | <b>Low temperature</b> | <b>Medium temperature</b> |
| $\eta_s$                              | 211 %                  | 157 %                     |
| Prated                                | 5.50 kW                | 5.50 kW                   |
| SCOP                                  | 5.46                   | 4.12                      |
| T <sub>biv</sub>                      | -22 °C                 | -22 °C                    |
| TOL                                   | -22 °C                 | -22 °C                    |
| P <sub>dh</sub> T <sub>j</sub> = -7°C | 3.40 kW                | 3.40 kW                   |
| COP T <sub>j</sub> = -7°C             | 5.17                   | 3.77                      |
| C <sub>dh</sub>                       | 1.00                   | 1.00                      |
| P <sub>dh</sub> T <sub>j</sub> = +2°C | 2.10 kW                | 2.10 kW                   |

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|   |             |             |
|---|-------------|-------------|
| COP Tj = +2°C                                       | 5.91        | 4.51        |
| Cdh   | 1.00        | 1.00        |
| Pdh Tj = +7°C                                       | 1.40 kW     | 1.40 kW     |
| COP Tj = +7°C                                       | 6.36        | 5.12        |
| Cdh   | 1.00        | 1.00        |
| Pdh Tj = 12°C                                       | 1.30 kW     | 1.20 kW     |
| COP Tj = 12°C                                       | 5.54        | 4.81        |
| Cdh   | 0.96        | 0.96        |
| Pdh Tj = Tbiv                                       | 5.40 kW     | 5.40 kW     |
| COP Tj = Tbiv                                       | 4.15        | 2.84        |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 5.40 kW     | 5.40 kW     |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 4.15        | 2.84        |
| Cdh   | 1.00        | 1.00        |
| WTOL  | 65 °C       | 65 °C       |
| Poff  | 2 W         | 2 W         |
| PTO   | 7 W         | 7 W         |
| PSB   | 7 W         | 7 W         |
| PCK   | 9 W         | 9 W         |
| Supplementary Heater: Type of energy input          | electricity | electricity |
| Supplementary Heater: PSUP                          | 0.00 kW     | 0.00 kW     |
| Annual energy consumption Qhe                       | 2482 kWh    | 3288 kWh    |

## Model: SWCV 62H1

### General Data

|              |             |
|--------------|-------------|
| Power supply | 1x230V 50Hz |
|--------------|-------------|

## Heating

### EN 14511-2

|             | Low temperature | Medium temperature |
|-------------|-----------------|--------------------|
| Heat output | 3.32 kW         | 2.95 kW            |
| El input    | 0.68 kW         | 0.94 kW            |
| COP         | 4.86            | 3.13               |

### EN 14511-4

| Operating range outdoor exchanger/indoor exchanger lower limit/lower limit | passed |
|--|--------|
| Operating range outdoor exchanger/indoor exchanger upper limit/upper limit | passed |
| Shutting off the heat transfer medium flow                                 | passed |
| Complete power supply failure  | passed |

## Average Climate

### EN 12102-1

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



This information was generated by the HP KEYMARK database on 5 Mar 2021

**EN 14825**

|               | <b>Low temperature</b> | <b>Medium temperature</b> |
|---------------|------------------------|---------------------------|
| $\eta_s$      | 199 %                  | 150 %                     |
| Prated        | 5.50 kW                | 5.50 kW                   |
| SCOP          | 5.18                   | 3.95                      |
| Tbiv          | -10 °C                 | -10 °C                    |
| TOL           | -10 °C                 | -10 °C                    |
| Pdh Tj = -7°C | 5.00 kW                | 5.00 kW                   |
| COP Tj = -7°C | 4.37                   | 3.06                      |
| Cdh           | 1.00                   | 1.00                      |
| Pdh Tj = +2°C | 3.10 kW                | 3.00 kW                   |
| COP Tj = +2°C | 5.24                   | 3.97                      |
| Cdh           | 1.00                   | 1.00                      |
| Pdh Tj = +7°C | 2.00 kW                | 2.00 kW                   |
| COP Tj = +7°C | 5.92                   | 4.63                      |
| Cdh           | 1.00                   | 1.00                      |
| Pdh Tj = 12°C | 1.30 kW                | 1.20 kW                   |
| COP Tj = 12°C | 5.95                   | 4.86                      |
| Cdh           | 0.96                   | 0.96                      |
| Pdh Tj = Tbiv | 5.40 kW                | 5.40 kW                   |
| COP Tj = Tbiv | 4.15                   | 2.84                      |

This information was generated by the HP KEYMARK database on 5 Mar 2021

|   |             |             |
|---|-------------|-------------|
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 5.40 kW     | 5.40 kW     |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 4.15        | 2.84        |
| Cdh   | 1.00        | 1.00        |
| WTOL  | 65 °C       | 65 °C       |
| Poff  | 2 W         | 2 W         |
| PTO   | 7 W         | 7 W         |
| PSB   | 7 W         | 7 W         |
| PCK   | 9 W         | 9 W         |
| Supplementary Heater: Type of energy input          | electricity | electricity |
| Supplementary Heater: PSUP                          | 0.00 kW     | 0.00 kW     |
| Annual energy consumption Qhe                       | 2192 kWh    | 2878 kWh    |

## Warmer Climate

| <b>EN 12102-1</b>        |                        |                           |
|--------------------------|------------------------|---------------------------|
|                          | <b>Low temperature</b> | <b>Medium temperature</b> |
| Sound power level indoor | 44 dB(A)               | 44 dB(A)                  |

| <b>EN 14825</b> |                        |                           |
|-----------------|------------------------|---------------------------|
|                 | <b>Low temperature</b> | <b>Medium temperature</b> |
| $\eta_s$        | 202 %                  | 151 %                     |
| Prated          | 5.50 kW                | 5.50 kW                   |

This information was generated by the HP KEYMARK database on 5 Mar 2021

|   |         |         |
|---|---------|---------|
| SCOP  | 5.24    | 3.97    |
| Tbiv  | 2 °C    | 2 °C    |
| TOL   | 2 °C    | 2 °C    |
| Pdh Tj = +2°C                                       | 5.40 kW | 5.40 kW |
| COP Tj = +2°C                                       | 4.15    | 2.84    |
| Cdh   | 1.00    | 1.00    |
| Pdh Tj = +7°C                                       | 3.60 kW | 3.60 kW |
| COP Tj = +7°C                                       | 5.00    | 3.59    |
| Cdh   | 1.00    | 1.00    |
| Pdh Tj = 12°C                                       | 1.70 kW | 1.70 kW |
| COP Tj = 12°C                                       | 6.15    | 4.86    |
| Cdh   | 1.00    | 1.00    |
| Pdh Tj = Tbiv                                       | 5.40 kW | 5.40 kW |
| COP Tj = Tbiv                                       | 4.15    | 2.84    |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 5.40 kW | 5.40 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 4.15    | 2.84    |
| Cdh   | 1.00    | 1.00    |
| WTOL  | 65 °C   | 65 °C   |
| Poff  | 2 W     | 2 W     |
| PTO   | 7 W     | 7 W     |
| PSB   | 7 W     | 7 W     |

This information was generated by the HP KEYMARK database on 5 Mar 2021

|  |             |             |
|--|-------------|-------------|
| PCK  | 9 W         | 9 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>  | 1402 kWh    | 1851 kWh    |

## Colder Climate

| <b>EN 12102-1</b>        |                        |                           |
|--------------------------|------------------------|---------------------------|
|                          | <b>Low temperature</b> | <b>Medium temperature</b> |
| Sound power level indoor | 44 dB(A)               | 44 dB(A)                  |

| <b>EN 14825</b>                       |                        |                           |
|---------------------------------------|------------------------|---------------------------|
|                                       | <b>Low temperature</b> | <b>Medium temperature</b> |
| $\eta_s$                              | 211 %                  | 157 %                     |
| Prated                                | 5.50 kW                | 5.50 kW                   |
| SCOP                                  | 5.46                   | 4.12                      |
| T <sub>biv</sub>                      | -22 °C                 | -22 °C                    |
| TOL                                   | -22 °C                 | -22 °C                    |
| P <sub>dh</sub> T <sub>j</sub> = -7°C | 3.40 kW                | 3.40 kW                   |
| COP T <sub>j</sub> = -7°C             | 5.17                   | 3.77                      |
| C <sub>dh</sub>                       | 1.00                   | 1.00                      |
| P <sub>dh</sub> T <sub>j</sub> = +2°C | 2.10 kW                | 2.10 kW                   |

This information was generated by the HP KEYMARK database on 5 Mar 2021

|   |             |             |
|---|-------------|-------------|
| COP Tj = +2°C                                       | 5.91        | 4.51        |
| Cdh   | 1.00        | 1.00        |
| Pdh Tj = +7°C                                       | 1.40 kW     | 1.40 kW     |
| COP Tj = +7°C                                       | 6.36        | 5.12        |
| Cdh   | 1.00        | 1.00        |
| Pdh Tj = 12°C                                       | 1.30 kW     | 1.20 kW     |
| COP Tj = 12°C                                       | 5.54        | 4.81        |
| Cdh   | 0.96        | 0.96        |
| Pdh Tj = Tbiv                                       | 5.40 kW     | 5.40 kW     |
| COP Tj = Tbiv                                       | 4.15        | 2.84        |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 5.40 kW     | 5.40 kW     |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 4.15        | 2.84        |
| Cdh   | 1.00        | 1.00        |
| WTOL  | 65 °C       | 65 °C       |
| Poff  | 2 W         | 2 W         |
| PTO   | 7 W         | 7 W         |
| PSB   | 7 W         | 7 W         |
| PCK   | 9 W         | 9 W         |
| Supplementary Heater: Type of energy input          | electricity | electricity |
| Supplementary Heater: PSUP                          | 0.00 kW     | 0.00 kW     |
| Annual energy consumption Qhe                       | 2482 kWh    | 3288 kWh    |

## Model: WZSV 62(H)(K)3M

### General Data

|              |             |
|--------------|-------------|
| Power supply | 3x230V 50Hz |
|--------------|-------------|

## Heating

### EN 14511-2

|             | Low temperature | Medium temperature |
|-------------|-----------------|--------------------|
| Heat output | 3.32 kW         | 2.95 kW            |
| El input    | 0.68 kW         | 0.94 kW            |
| COP         | 4.86            | 3.13               |

### EN 14511-4

| Operating range outdoor exchanger/indoor exchanger lower limit/lower limit | passed |
|--|--------|
| Operating range outdoor exchanger/indoor exchanger upper limit/upper limit | passed |
| Shutting off the heat transfer medium flow                                 | passed |
| Complete power supply failure  | passed |

## Average Climate

### EN 12102-1

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

This information was generated by the HP KEYMARK database on 5 Mar 2021

**EN 14825**

|               | Low temperature | Medium temperature |
|---------------|-----------------|--------------------|
| $\eta_s$      | 199 %           | 150 %              |
| Prated        | 5.50 kW         | 5.50 kW            |
| SCOP          | 5.18            | 3.95               |
| Tbiv          | -10 °C          | -10 °C             |
| TOL           | -10 °C          | -10 °C             |
| Pdh Tj = -7°C | 5.00 kW         | 5.00 kW            |
| COP Tj = -7°C | 4.37            | 3.06               |
| Cdh           | 1.00            | 1.00               |
| Pdh Tj = +2°C | 3.10 kW         | 3.00 kW            |
| COP Tj = +2°C | 5.24            | 3.97               |
| Cdh           | 1.00            | 1.00               |
| Pdh Tj = +7°C | 2.00 kW         | 2.00 kW            |
| COP Tj = +7°C | 5.92            | 4.63               |
| Cdh           | 1.00            | 1.00               |
| Pdh Tj = 12°C | 1.30 kW         | 1.20 kW            |
| COP Tj = 12°C | 5.95            | 4.86               |
| Cdh           | 0.96            | 0.96               |
| Pdh Tj = Tbiv | 5.40 kW         | 5.40 kW            |
| COP Tj = Tbiv | 4.15            | 2.84               |

This information was generated by the HP KEYMARK database on 5 Mar 2021

|   |             |             |
|---|-------------|-------------|
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 5.40 kW     | 5.40 kW     |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 4.15        | 2.84        |
| Cdh   | 1.00        | 1.00        |
| WTOL  | 65 °C       | 65 °C       |
| Poff  | 2 W         | 2 W         |
| PTO   | 7 W         | 7 W         |
| PSB   | 7 W         | 7 W         |
| PCK   | 9 W         | 9 W         |
| Supplementary Heater: Type of energy input          | electricity | electricity |
| Supplementary Heater: PSUP                          | 0.00 kW     | 0.00 kW     |
| Annual energy consumption Qhe                       | 2192 kWh    | 2878 kWh    |

## Warmer Climate

| <b>EN 12102-1</b>        |                        |                           |
|--------------------------|------------------------|---------------------------|
|                          | <b>Low temperature</b> | <b>Medium temperature</b> |
| Sound power level indoor | 44 dB(A)               | 44 dB(A)                  |

| <b>EN 14825</b> |                        |                           |
|-----------------|------------------------|---------------------------|
|                 | <b>Low temperature</b> | <b>Medium temperature</b> |
| $\eta_s$        | 202 %                  | 151 %                     |
| Prated          | 5.50 kW                | 5.50 kW                   |



This information was generated by the HP KEYMARK database on 5 Mar 2021

|   |         |         |
|---|---------|---------|
| SCOP  | 5.24    | 3.97    |
| Tbiv  | 2 °C    | 2 °C    |
| TOL   | 2 °C    | 2 °C    |
| Pdh Tj = +2°C                                       | 5.40 kW | 5.40 kW |
| COP Tj = +2°C                                       | 4.15    | 2.84    |
| Cdh   | 1.00    | 1.00    |
| Pdh Tj = +7°C                                       | 3.60 kW | 3.60 kW |
| COP Tj = +7°C                                       | 5.00    | 3.59    |
| Cdh   | 1.00    | 1.00    |
| Pdh Tj = 12°C                                       | 1.70 kW | 1.70 kW |
| COP Tj = 12°C                                       | 6.15    | 4.86    |
| Cdh   | 1.00    | 1.00    |
| Pdh Tj = Tbiv                                       | 5.40 kW | 5.40 kW |
| COP Tj = Tbiv                                       | 4.15    | 2.84    |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 5.40 kW | 5.40 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 4.15    | 2.84    |
| Cdh   | 1.00    | 1.00    |
| WTOL  | 65 °C   | 65 °C   |
| Poff  | 2 W     | 2 W     |
| PTO   | 7 W     | 7 W     |
| PSB   | 7 W     | 7 W     |

This information was generated by the HP KEYMARK database on 5 Mar 2021

|  |             |             |
|--|-------------|-------------|
| PCK  | 9 W         | 9 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>  | 1402 kWh    | 1851 kWh    |

## Colder Climate

| <b>EN 12102-1</b>        |                        |                           |
|--------------------------|------------------------|---------------------------|
|                          | <b>Low temperature</b> | <b>Medium temperature</b> |
| Sound power level indoor | 44 dB(A)               | 44 dB(A)                  |

| <b>EN 14825</b>                       |                        |                           |
|---------------------------------------|------------------------|---------------------------|
|                                       | <b>Low temperature</b> | <b>Medium temperature</b> |
| $\eta_s$                              | 211 %                  | 157 %                     |
| Prated                                | 5.50 kW                | 5.50 kW                   |
| SCOP                                  | 5.46                   | 4.12                      |
| T <sub>biv</sub>                      | -22 °C                 | -22 °C                    |
| TOL                                   | -22 °C                 | -22 °C                    |
| P <sub>dh</sub> T <sub>j</sub> = -7°C | 3.40 kW                | 3.40 kW                   |
| COP T <sub>j</sub> = -7°C             | 5.17                   | 3.77                      |
| C <sub>dh</sub>                       | 1.00                   | 1.00                      |
| P <sub>dh</sub> T <sub>j</sub> = +2°C | 2.10 kW                | 2.10 kW                   |

This information was generated by the HP KEYMARK database on 5 Mar 2021

|   |             |             |
|---|-------------|-------------|
| COP Tj = +2°C                                       | 5.91        | 4.51        |
| Cdh   | 1.00        | 1.00        |
| Pdh Tj = +7°C                                       | 1.40 kW     | 1.40 kW     |
| COP Tj = +7°C                                       | 6.36        | 5.12        |
| Cdh   | 1.00        | 1.00        |
| Pdh Tj = 12°C                                       | 1.30 kW     | 1.20 kW     |
| COP Tj = 12°C                                       | 5.54        | 4.81        |
| Cdh   | 0.96        | 0.96        |
| Pdh Tj = Tbiv                                       | 5.40 kW     | 5.40 kW     |
| COP Tj = Tbiv                                       | 4.15        | 2.84        |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 5.40 kW     | 5.40 kW     |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 4.15        | 2.84        |
| Cdh   | 1.00        | 1.00        |
| WTOL  | 65 °C       | 65 °C       |
| Poff  | 2 W         | 2 W         |
| PTO   | 7 W         | 7 W         |
| PSB   | 7 W         | 7 W         |
| PCK   | 9 W         | 9 W         |
| Supplementary Heater: Type of energy input          | electricity | electricity |
| Supplementary Heater: PSUP                          | 0.00 kW     | 0.00 kW     |
| Annual energy consumption Qhe                       | 2482 kWh    | 3288 kWh    |

## Model: PWZSV 62H3S

### General Data

|              |             |
|--------------|-------------|
| Power supply | 3x400V 50Hz |
|--------------|-------------|

## Heating

### EN 14511-2

|             | Low temperature | Medium temperature |
|-------------|-----------------|--------------------|
| Heat output | 3.32 kW         | 2.95 kW            |
| El input    | 0.68 kW         | 0.94 kW            |
| COP         | 4.86            | 3.13               |

### EN 14511-4

| Operating range outdoor exchanger/indoor exchanger lower limit/lower limit | passed |
|--|--------|
| Operating range outdoor exchanger/indoor exchanger upper limit/upper limit | passed |
| Shutting off the heat transfer medium flow                                 | passed |
| Complete power supply failure  | passed |

## Average Climate

### EN 12102-1

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

This information was generated by the HP KEYMARK database on 5 Mar 2021

**EN 14825**

|               | <b>Low temperature</b> | <b>Medium temperature</b> |
|---------------|------------------------|---------------------------|
| $\eta_s$      | 199 %                  | 150 %                     |
| Prated        | 5.50 kW                | 5.50 kW                   |
| SCOP          | 5.18                   | 3.95                      |
| Tbiv          | -10 °C                 | -10 °C                    |
| TOL           | -10 °C                 | -10 °C                    |
| Pdh Tj = -7°C | 5.00 kW                | 5.00 kW                   |
| COP Tj = -7°C | 4.37                   | 3.06                      |
| Cdh           | 1.00                   | 1.00                      |
| Pdh Tj = +2°C | 3.10 kW                | 3.00 kW                   |
| COP Tj = +2°C | 5.24                   | 3.97                      |
| Cdh           | 1.00                   | 1.00                      |
| Pdh Tj = +7°C | 2.00 kW                | 2.00 kW                   |
| COP Tj = +7°C | 5.92                   | 4.63                      |
| Cdh           | 1.00                   | 1.00                      |
| Pdh Tj = 12°C | 1.30 kW                | 1.20 kW                   |
| COP Tj = 12°C | 5.95                   | 4.86                      |
| Cdh           | 0.96                   | 0.96                      |
| Pdh Tj = Tbiv | 5.40 kW                | 5.40 kW                   |
| COP Tj = Tbiv | 4.15                   | 2.84                      |

This information was generated by the HP KEYMARK database on 5 Mar 2021

|   |             |             |
|---|-------------|-------------|
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 5.40 kW     | 5.40 kW     |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 4.15        | 2.84        |
| Cdh   | 1.00        | 1.00        |
| WTOL  | 65 °C       | 65 °C       |
| Poff  | 2 W         | 2 W         |
| PTO   | 7 W         | 7 W         |
| PSB   | 7 W         | 7 W         |
| PCK   | 9 W         | 9 W         |
| Supplementary Heater: Type of energy input          | electricity | electricity |
| Supplementary Heater: PSUP                          | 0.00 kW     | 0.00 kW     |
| Annual energy consumption Qhe                       | 2192 kWh    | 2878 kWh    |

## Warmer Climate

| <b>EN 12102-1</b>        |                        |                           |
|--------------------------|------------------------|---------------------------|
|                          | <b>Low temperature</b> | <b>Medium temperature</b> |
| Sound power level indoor | 44 dB(A)               | 44 dB(A)                  |

| <b>EN 14825</b> |                        |                           |
|-----------------|------------------------|---------------------------|
|                 | <b>Low temperature</b> | <b>Medium temperature</b> |
| $\eta_s$        | 202 %                  | 151 %                     |
| Prated          | 5.50 kW                | 5.50 kW                   |

This information was generated by the HP KEYMARK database on 5 Mar 2021

|   |         |         |
|---|---------|---------|
| SCOP  | 5.24    | 3.97    |
| Tbiv  | 2 °C    | 2 °C    |
| TOL   | 2 °C    | 2 °C    |
| Pdh Tj = +2°C                                       | 5.40 kW | 5.40 kW |
| COP Tj = +2°C                                       | 4.15    | 2.84    |
| Cdh   | 1.00    | 1.00    |
| Pdh Tj = +7°C                                       | 3.60 kW | 3.60 kW |
| COP Tj = +7°C                                       | 5.00    | 3.59    |
| Cdh   | 1.00    | 1.00    |
| Pdh Tj = 12°C                                       | 1.70 kW | 1.70 kW |
| COP Tj = 12°C                                       | 6.15    | 4.86    |
| Cdh   | 1.00    | 1.00    |
| Pdh Tj = Tbiv                                       | 5.40 kW | 5.40 kW |
| COP Tj = Tbiv                                       | 4.15    | 2.84    |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 5.40 kW | 5.40 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 4.15    | 2.84    |
| Cdh   | 1.00    | 1.00    |
| WTOL  | 65 °C   | 65 °C   |
| Poff  | 2 W     | 2 W     |
| PTO   | 7 W     | 7 W     |
| PSB   | 7 W     | 7 W     |

This information was generated by the HP KEYMARK database on 5 Mar 2021

|  |             |             |
|--|-------------|-------------|
| PCK  | 9 W         | 9 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>  | 1402 kWh    | 1851 kWh    |

## Colder Climate

| <b>EN 12102-1</b>        |                        |                           |
|--------------------------|------------------------|---------------------------|
|                          | <b>Low temperature</b> | <b>Medium temperature</b> |
| Sound power level indoor | 44 dB(A)               | 44 dB(A)                  |

| <b>EN 14825</b>                       |                        |                           |
|---------------------------------------|------------------------|---------------------------|
|                                       | <b>Low temperature</b> | <b>Medium temperature</b> |
| $\eta_s$                              | 211 %                  | 157 %                     |
| Prated                                | 5.50 kW                | 5.50 kW                   |
| SCOP                                  | 5.46                   | 4.12                      |
| T <sub>biv</sub>                      | -22 °C                 | -22 °C                    |
| TOL                                   | -22 °C                 | -22 °C                    |
| P <sub>dh</sub> T <sub>j</sub> = -7°C | 3.40 kW                | 3.40 kW                   |
| COP T <sub>j</sub> = -7°C             | 5.17                   | 3.77                      |
| C <sub>dh</sub>                       | 1.00                   | 1.00                      |
| P <sub>dh</sub> T <sub>j</sub> = +2°C | 2.10 kW                | 2.10 kW                   |



This information was generated by the HP KEYMARK database on 5 Mar 2021

|   |             |             |
|---|-------------|-------------|
| COP Tj = +2°C                                       | 5.91        | 4.51        |
| Cdh   | 1.00        | 1.00        |
| Pdh Tj = +7°C                                       | 1.40 kW     | 1.40 kW     |
| COP Tj = +7°C                                       | 6.36        | 5.12        |
| Cdh   | 1.00        | 1.00        |
| Pdh Tj = 12°C                                       | 1.30 kW     | 1.20 kW     |
| COP Tj = 12°C                                       | 5.54        | 4.81        |
| Cdh   | 0.96        | 0.96        |
| Pdh Tj = Tbiv                                       | 5.40 kW     | 5.40 kW     |
| COP Tj = Tbiv                                       | 4.15        | 2.84        |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 5.40 kW     | 5.40 kW     |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 4.15        | 2.84        |
| Cdh   | 1.00        | 1.00        |
| WTOL  | 65 °C       | 65 °C       |
| Poff  | 2 W         | 2 W         |
| PTO   | 7 W         | 7 W         |
| PSB   | 7 W         | 7 W         |
| PCK   | 9 W         | 9 W         |
| Supplementary Heater: Type of energy input          | electricity | electricity |
| Supplementary Heater: PSUP                          | 0.00 kW     | 0.00 kW     |
| Annual energy consumption Qhe                       | 2482 kWh    | 3288 kWh    |

## Model: PWZSV 62H2S

### General Data

|              |             |
|--------------|-------------|
| Power supply | 3x230V 50Hz |
|--------------|-------------|

## Heating

### EN 14511-2

|             | Low temperature | Medium temperature |
|-------------|-----------------|--------------------|
| Heat output | 3.32 kW         | 2.95 kW            |
| El input    | 0.68 kW         | 0.94 kW            |
| COP         | 4.86            | 3.13               |

### EN 14511-4

| Operating range outdoor exchanger/indoor exchanger lower limit/lower limit | passed |
|--|--------|
| Operating range outdoor exchanger/indoor exchanger upper limit/upper limit | passed |
| Shutting off the heat transfer medium flow                                 | passed |
| Complete power supply failure  | passed |

## Average Climate

### EN 12102-1

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

This information was generated by the HP KEYMARK database on 5 Mar 2021

**EN 14825**

|               | Low temperature | Medium temperature |
|---------------|-----------------|--------------------|
| $\eta_s$      | 199 %           | 150 %              |
| Prated        | 5.50 kW         | 5.50 kW            |
| SCOP          | 5.18            | 3.95               |
| Tbiv          | -10 °C          | -10 °C             |
| TOL           | -10 °C          | -10 °C             |
| Pdh Tj = -7°C | 5.00 kW         | 5.00 kW            |
| COP Tj = -7°C | 4.37            | 3.06               |
| Cdh           | 1.00            | 1.00               |
| Pdh Tj = +2°C | 3.10 kW         | 3.00 kW            |
| COP Tj = +2°C | 5.24            | 3.97               |
| Cdh           | 1.00            | 1.00               |
| Pdh Tj = +7°C | 2.00 kW         | 2.00 kW            |
| COP Tj = +7°C | 5.92            | 4.63               |
| Cdh           | 1.00            | 1.00               |
| Pdh Tj = 12°C | 1.30 kW         | 1.20 kW            |
| COP Tj = 12°C | 5.95            | 4.86               |
| Cdh           | 0.96            | 0.96               |
| Pdh Tj = Tbiv | 5.40 kW         | 5.40 kW            |
| COP Tj = Tbiv | 4.15            | 2.84               |

This information was generated by the HP KEYMARK database on 5 Mar 2021

|   |             |             |
|---|-------------|-------------|
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 5.40 kW     | 5.40 kW     |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 4.15        | 2.84        |
| Cdh   | 1.00        | 1.00        |
| WTOL  | 65 °C       | 65 °C       |
| Poff  | 2 W         | 2 W         |
| PTO   | 7 W         | 7 W         |
| PSB   | 7 W         | 7 W         |
| PCK   | 9 W         | 9 W         |
| Supplementary Heater: Type of energy input          | electricity | electricity |
| Supplementary Heater: PSUP                          | 0.00 kW     | 0.00 kW     |
| Annual energy consumption Qhe                       | 2192 kWh    | 2878 kWh    |

## Warmer Climate

| <b>EN 12102-1</b>        |                        |                           |
|--------------------------|------------------------|---------------------------|
|                          | <b>Low temperature</b> | <b>Medium temperature</b> |
| Sound power level indoor | 44 dB(A)               | 44 dB(A)                  |

| <b>EN 14825</b> |                        |                           |
|-----------------|------------------------|---------------------------|
|                 | <b>Low temperature</b> | <b>Medium temperature</b> |
| $\eta_s$        | 202 %                  | 151 %                     |
| Prated          | 5.50 kW                | 5.50 kW                   |

This information was generated by the HP KEYMARK database on 5 Mar 2021

|   |         |         |
|---|---------|---------|
| SCOP  | 5.24    | 3.97    |
| Tbiv  | 2 °C    | 2 °C    |
| TOL   | 2 °C    | 2 °C    |
| Pdh Tj = +2°C                                       | 5.40 kW | 5.40 kW |
| COP Tj = +2°C                                       | 4.15    | 2.84    |
| Cdh   | 1.00    | 1.00    |
| Pdh Tj = +7°C                                       | 3.60 kW | 3.60 kW |
| COP Tj = +7°C                                       | 5.00    | 3.59    |
| Cdh   | 1.00    | 1.00    |
| Pdh Tj = 12°C                                       | 1.70 kW | 1.70 kW |
| COP Tj = 12°C                                       | 6.15    | 4.86    |
| Cdh   | 1.00    | 1.00    |
| Pdh Tj = Tbiv                                       | 5.40 kW | 5.40 kW |
| COP Tj = Tbiv                                       | 4.15    | 2.84    |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 5.40 kW | 5.40 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 4.15    | 2.84    |
| Cdh   | 1.00    | 1.00    |
| WTOL  | 65 °C   | 65 °C   |
| Poff  | 2 W     | 2 W     |
| PTO   | 7 W     | 7 W     |
| PSB   | 7 W     | 7 W     |

This information was generated by the HP KEYMARK database on 5 Mar 2021

|  |             |             |
|--|-------------|-------------|
| PCK  | 9 W         | 9 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>  | 1402 kWh    | 1851 kWh    |

## Colder Climate

| <b>EN 12102-1</b>        |                        |                           |
|--------------------------|------------------------|---------------------------|
|                          | <b>Low temperature</b> | <b>Medium temperature</b> |
| Sound power level indoor | 44 dB(A)               | 44 dB(A)                  |

| <b>EN 14825</b>                       |                        |                           |
|---------------------------------------|------------------------|---------------------------|
|                                       | <b>Low temperature</b> | <b>Medium temperature</b> |
| $\eta_s$                              | 211 %                  | 157 %                     |
| Prated                                | 5.50 kW                | 5.50 kW                   |
| SCOP                                  | 5.46                   | 4.12                      |
| T <sub>biv</sub>                      | -22 °C                 | -22 °C                    |
| TOL                                   | -22 °C                 | -22 °C                    |
| P <sub>dh</sub> T <sub>j</sub> = -7°C | 3.40 kW                | 3.40 kW                   |
| COP T <sub>j</sub> = -7°C             | 5.17                   | 3.77                      |
| C <sub>dh</sub>                       | 1.00                   | 1.00                      |
| P <sub>dh</sub> T <sub>j</sub> = +2°C | 2.10 kW                | 2.10 kW                   |

This information was generated by the HP KEYMARK database on 5 Mar 2021

|   |             |             |
|---|-------------|-------------|
| COP Tj = +2°C                                       | 5.91        | 4.51        |
| Cdh   | 1.00        | 1.00        |
| Pdh Tj = +7°C                                       | 1.40 kW     | 1.40 kW     |
| COP Tj = +7°C                                       | 6.36        | 5.12        |
| Cdh   | 1.00        | 1.00        |
| Pdh Tj = 12°C                                       | 1.30 kW     | 1.20 kW     |
| COP Tj = 12°C                                       | 5.54        | 4.81        |
| Cdh   | 0.96        | 0.96        |
| Pdh Tj = Tbiv                                       | 5.40 kW     | 5.40 kW     |
| COP Tj = Tbiv                                       | 4.15        | 2.84        |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 5.40 kW     | 5.40 kW     |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 4.15        | 2.84        |
| Cdh   | 1.00        | 1.00        |
| WTOL  | 65 °C       | 65 °C       |
| Poff  | 2 W         | 2 W         |
| PTO   | 7 W         | 7 W         |
| PSB   | 7 W         | 7 W         |
| PCK   | 9 W         | 9 W         |
| Supplementary Heater: Type of energy input          | electricity | electricity |
| Supplementary Heater: PSUP                          | 0.00 kW     | 0.00 kW     |
| Annual energy consumption Qhe                       | 2482 kWh    | 3288 kWh    |

## Model: PWZSV 62H1S

### General Data

|              |             |
|--------------|-------------|
| Power supply | 1x230V 50Hz |
|--------------|-------------|

## Heating

### EN 14511-2

|             | Low temperature | Medium temperature |
|-------------|-----------------|--------------------|
| Heat output | 3.32 kW         | 2.95 kW            |
| El input    | 0.68 kW         | 0.94 kW            |
| COP         | 4.86            | 3.13               |

### EN 14511-4

| Operating range outdoor exchanger/indoor exchanger lower limit/lower limit | passed |
|--|--------|
| Operating range outdoor exchanger/indoor exchanger upper limit/upper limit | passed |
| Shutting off the heat transfer medium flow                                 | passed |
| Complete power supply failure  | passed |

## Average Climate

### EN 12102-1

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



This information was generated by the HP KEYMARK database on 5 Mar 2021

**EN 14825**

|               | <b>Low temperature</b> | <b>Medium temperature</b> |
|---------------|------------------------|---------------------------|
| $\eta_s$      | 199 %                  | 150 %                     |
| Prated        | 5.50 kW                | 5.50 kW                   |
| SCOP          | 5.18                   | 3.95                      |
| Tbiv          | -10 °C                 | -10 °C                    |
| TOL           | -10 °C                 | -10 °C                    |
| Pdh Tj = -7°C | 5.00 kW                | 5.00 kW                   |
| COP Tj = -7°C | 4.37                   | 3.06                      |
| Cdh           | 1.00                   | 1.00                      |
| Pdh Tj = +2°C | 3.10 kW                | 3.00 kW                   |
| COP Tj = +2°C | 5.24                   | 3.97                      |
| Cdh           | 1.00                   | 1.00                      |
| Pdh Tj = +7°C | 2.00 kW                | 2.00 kW                   |
| COP Tj = +7°C | 5.92                   | 4.63                      |
| Cdh           | 1.00                   | 1.00                      |
| Pdh Tj = 12°C | 1.30 kW                | 1.20 kW                   |
| COP Tj = 12°C | 5.95                   | 4.86                      |
| Cdh           | 0.96                   | 0.96                      |
| Pdh Tj = Tbiv | 5.40 kW                | 5.40 kW                   |
| COP Tj = Tbiv | 4.15                   | 2.84                      |

This information was generated by the HP KEYMARK database on 5 Mar 2021

|   |             |             |
|---|-------------|-------------|
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 5.40 kW     | 5.40 kW     |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 4.15        | 2.84        |
| Cdh   | 1.00        | 1.00        |
| WTOL  | 65 °C       | 65 °C       |
| Poff  | 2 W         | 2 W         |
| PTO   | 7 W         | 7 W         |
| PSB   | 7 W         | 7 W         |
| PCK   | 9 W         | 9 W         |
| Supplementary Heater: Type of energy input          | electricity | electricity |
| Supplementary Heater: PSUP                          | 0.00 kW     | 0.00 kW     |
| Annual energy consumption Qhe                       | 2192 kWh    | 2878 kWh    |

## Warmer Climate

| <b>EN 12102-1</b>        |                        |                           |
|--------------------------|------------------------|---------------------------|
|                          | <b>Low temperature</b> | <b>Medium temperature</b> |
| Sound power level indoor | 44 dB(A)               | 44 dB(A)                  |

| <b>EN 14825</b> |                        |                           |
|-----------------|------------------------|---------------------------|
|                 | <b>Low temperature</b> | <b>Medium temperature</b> |
| $\eta_s$        | 202 %                  | 151 %                     |
| Prated          | 5.50 kW                | 5.50 kW                   |

This information was generated by the HP KEYMARK database on 5 Mar 2021

|   |         |         |
|---|---------|---------|
| SCOP  | 5.24    | 3.97    |
| Tbiv  | 2 °C    | 2 °C    |
| TOL   | 2 °C    | 2 °C    |
| Pdh Tj = +2°C                                       | 5.40 kW | 5.40 kW |
| COP Tj = +2°C                                       | 4.15    | 2.84    |
| Cdh   | 1.00    | 1.00    |
| Pdh Tj = +7°C                                       | 3.60 kW | 3.60 kW |
| COP Tj = +7°C                                       | 5.00    | 3.59    |
| Cdh   | 1.00    | 1.00    |
| Pdh Tj = 12°C                                       | 1.70 kW | 1.70 kW |
| COP Tj = 12°C                                       | 6.15    | 4.86    |
| Cdh   | 1.00    | 1.00    |
| Pdh Tj = Tbiv                                       | 5.40 kW | 5.40 kW |
| COP Tj = Tbiv                                       | 4.15    | 2.84    |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 5.40 kW | 5.40 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 4.15    | 2.84    |
| Cdh   | 1.00    | 1.00    |
| WTOL  | 65 °C   | 65 °C   |
| Poff  | 2 W     | 2 W     |
| PTO   | 7 W     | 7 W     |
| PSB   | 7 W     | 7 W     |

This information was generated by the HP KEYMARK database on 5 Mar 2021

|  |             |             |
|--|-------------|-------------|
| PCK  | 9 W         | 9 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>  | 1402 kWh    | 1851 kWh    |

## Colder Climate

| <b>EN 12102-1</b>        |                        |                           |
|--------------------------|------------------------|---------------------------|
|                          | <b>Low temperature</b> | <b>Medium temperature</b> |
| Sound power level indoor | 44 dB(A)               | 44 dB(A)                  |

| <b>EN 14825</b>                       |                        |                           |
|---------------------------------------|------------------------|---------------------------|
|                                       | <b>Low temperature</b> | <b>Medium temperature</b> |
| $\eta_s$                              | 211 %                  | 157 %                     |
| Prated                                | 5.50 kW                | 5.50 kW                   |
| SCOP                                  | 5.46                   | 4.12                      |
| T <sub>biv</sub>                      | -22 °C                 | -22 °C                    |
| TOL                                   | -22 °C                 | -22 °C                    |
| P <sub>dh</sub> T <sub>j</sub> = -7°C | 3.40 kW                | 3.40 kW                   |
| COP T <sub>j</sub> = -7°C             | 5.17                   | 3.77                      |
| C <sub>dh</sub>                       | 1.00                   | 1.00                      |
| P <sub>dh</sub> T <sub>j</sub> = +2°C | 2.10 kW                | 2.10 kW                   |

This information was generated by the HP KEYMARK database on 5 Mar 2021

|   |             |             |
|---|-------------|-------------|
| COP Tj = +2°C                                       | 5.91        | 4.51        |
| Cdh   | 1.00        | 1.00        |
| Pdh Tj = +7°C                                       | 1.40 kW     | 1.40 kW     |
| COP Tj = +7°C                                       | 6.36        | 5.12        |
| Cdh   | 1.00        | 1.00        |
| Pdh Tj = 12°C                                       | 1.30 kW     | 1.20 kW     |
| COP Tj = 12°C                                       | 5.54        | 4.81        |
| Cdh   | 0.96        | 0.96        |
| Pdh Tj = Tbiv                                       | 5.40 kW     | 5.40 kW     |
| COP Tj = Tbiv                                       | 4.15        | 2.84        |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 5.40 kW     | 5.40 kW     |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 4.15        | 2.84        |
| Cdh   | 1.00        | 1.00        |
| WTOL  | 65 °C       | 65 °C       |
| Poff  | 2 W         | 2 W         |
| PTO   | 7 W         | 7 W         |
| PSB   | 7 W         | 7 W         |
| PCK   | 9 W         | 9 W         |
| Supplementary Heater: Type of energy input          | electricity | electricity |
| Supplementary Heater: PSUP                          | 0.00 kW     | 0.00 kW     |
| Annual energy consumption Qhe                       | 2482 kWh    | 3288 kWh    |