

## Subtype SHERPA MONOBLOC S2 E SERIES 6 8 10 kW

|                     |                                       |
|---------------------|---------------------------------------|
| Certificate Holder  | Olimpia Splendid S.p.A.               |
| Address             | Via Industriale, 1/3                  |
| ZIP                 | 25060                                 |
| City                | Cellatica (BS)                        |
| Country             | IT                                    |
| Certification Body  | BRE Global Limited                    |
| Subtype title       | SHERPA MONOBLOC S2 E SERIES 6 8 10 kW |
| Registration number | 041-K028-01                           |
| Heat Pump Type      | Outdoor Air/Water                     |
| Refrigerant         | R32                                   |
| Mass of Refrigerant | 1.25 kg                               |
| Certification Date  | 14.10.2022                            |
| Testing basis       | Heat Pump Keymark Scheme Rules Rev 09 |

## Model SHERPA MONOBLOC S2 E 6

|                                     |                                |
|-------------------------------------|--------------------------------|
| Model name                          | SHERPA MONOBLOC S2 E 6         |
| Application                         | Heating (medium temp)          |
| Units                               | Outdoor                        |
| Climate zone (for heating)          | Warmer Climate, Colder Climate |
| Reversibility                       | Yes                            |
| Cooling mode application (optional) | n/a                            |
| Any additional heat sources         | n/a                            |

## General data

|                  |             |
|------------------|-------------|
| Power supply     | 1x230V 50Hz |
| Off-peak product | n/a         |

## Outdoor Air/Water

### EN 14511-4 | Heating

|  |        |
|--|--------|
| Shutting off the heat transfer medium flow | passed |
| Complete power supply failure              | passed |
| Defrost test                               | passed |
| Starting and operating test                | passed |

### EN 12102-1 | Average Climate

|                           | Low temperature | Medium temperature |
|---------------------------|-----------------|--------------------|
| Sound power level outdoor | 60 dB(A)        | 60 dB(A)           |

### EN 14825 | Average Climate

|                 | Low temperature | Medium temperature |
|-----------------|-----------------|--------------------|
| $\eta_s$        | 201.8 %         | 140.72 %           |
| Prated          | 6.52 kW         | 6.36 kW            |
| SCOP            | 5.12            | 3.59               |
| Tbiv            | -7 °C           | -7 °C              |
| TOL             | -10 °C          | -10 °C             |
| Pdh Tj = -7°C   | 5.77 kW         | 5.62 kW            |
| COP Tj = -7°C   | 3.43            | 2.36               |
| Cdh Tj = -7 °C  | 0.9             | 0.9                |
| Pdh Tj = +2°C   | 3.74 kW         | 3.52 kW            |
| COP Tj = +2°C   | 5.04            | 3.7                |
| Cdh Tj = +2 °C  | 0.9             | 0.9                |
| Pdh Tj = +7°C   | 2.32 kW         | 2.2 kW             |
| COP Tj = +7°C   | 6.06            | 4.21               |
| Cdh Tj = +7 °C  | 0.9             | 0.9                |
| Pdh Tj = 12°C   | 1.87 kW         | 1.31 kW            |
| COP Tj = 12°C   | 9.12            | 4.96               |
| Cdh Tj = +12 °C | 0.9             | 0.9                |
| Pdh Tj = Tbiv   | 5.77 kW         | 5.62 kW            |
| COP Tj = Tbiv   | 3.43            | 2.36               |

|   |             |             |
|---|-------------|-------------|
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 6.52 kW     | 6.04 kW     |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 3           | 2.02        |
| WTOL  | 65 °C       | 65 °C       |
| Poff  | 13 W        | 13 W        |
| PTO   | 20 W        | 20 W        |
| PSB   | 13 W        | 13 W        |
| PCK   | 0 W         | 0 W         |
| Supplementary Heater: Type of energy input          | Electricity | Electricity |
| Supplementary Heater: PSUP                          | 0 kW        | 0.32 kW     |
| Annual energy consumption Qhe                       | 2631 kWh    | 3655 kWh    |

#### EN 12102-1 | Colder Climate

|                           | Low temperature | Medium temperature |
|---------------------------|-----------------|--------------------|
| Sound power level outdoor | 60 dB(A)        | 60 dB(A)           |

#### EN 14825 | Colder Climate

|   | Low temperature | Medium temperature |
|---|-----------------|--------------------|
| $\eta_s$  | 173.4 %         | 113.12 %           |
| Prated  | 6.13 kW         | 5.22 kW            |
| SCOP  | 4.41            | 2.9                |
| Tbiv  | -15 °C          | -15 °C             |
| TOL   | -22 °C          | -22 °C             |
| Pdh Tj = -7°C                                       | 4.11 kW         | 3.21 kW            |
| COP Tj = -7°C                                       | 3.76            | 2.6                |
| Cdh Tj = -7 °C                                      | 0.9             | 0.9                |
| Pdh Tj = +2°C                                       | 2.38 kW         | 2.03 kW            |
| COP Tj = +2°C                                       | 5.33            | 3.18               |
| Cdh Tj = +2 °C                                      | 0.9             | 0.9                |
| Pdh Tj = +7°C                                       | 1.66 kW         | 1.56 kW            |
| COP Tj = +7°C                                       | 5.78            | 4.5                |
| Cdh Tj = +7 °C                                      | 0.9             | 0.9                |
| Pdh Tj = 12°C                                       | 1.87 kW         | 1.44 kW            |
| COP Tj = 12°C                                       | 9.12            | 5.83               |
| Cdh Tj = +12 °C                                     | 0.9             | 0.9                |
| Pdh Tj = Tbiv                                       | 5 kW            | 4.25 kW            |
| COP Tj = Tbiv                                       | 3.02            | 2                  |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 4.21 kW         | 3.24 kW            |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.12            | 1.32               |
| WTOL  | 65 °C           | 65 °C              |
| Poff  | 13 W            | 13 W               |
| PTO   | 20 W            | 20 W               |
| PSB   | 13 W            | 13 W               |

|  |             |             |
|--|-------------|-------------|
| PCK  | 0 W         | 0 W         |
| Supplementary Heater: Type of energy input     | Electricity | Electricity |
| Supplementary Heater: PSUP                     | 1.92 kW     | 1.98 kW     |
| Annual energy consumption Q <sub>he</sub>      | 3425 kWh    | 4428 kWh    |
| P <sub>dh</sub> T <sub>j</sub> = -15°C (if TOL | 5           | 4.25        |
| COP T <sub>j</sub> = -15°C (if TOL             | 3.02        | 2           |
| C <sub>dh</sub> T <sub>j</sub> = -15 °C        | 0.9         | 0.9         |

#### EN 12102-1 | Warmer Climate

|                           |                 |                    |
|---------------------------|-----------------|--------------------|
|                           | Low temperature | Medium temperature |
| Sound power level outdoor | 60 dB(A)        | 60 dB(A)           |

#### EN 14825 | Warmer Climate

|   |                 |                    |
|---|-----------------|--------------------|
|   | Low temperature | Medium temperature |
| η <sub>s</sub>  | 268.2 %         | 170.9 %            |
| Prated  | 6.24 kW         | 6.17 kW            |
| SCOP  | 6.78            | 4.35               |
| T <sub>biv</sub>  | 7 °C            | 7 °C               |
| TOL   | 2 °C            | 2 °C               |
| P <sub>dh</sub> T <sub>j</sub> = +2°C   | 5.69 kW         | 6.17 kW            |
| COP T <sub>j</sub> = +2°C   | 4.31            | 2.77               |
| C <sub>dh</sub> T <sub>j</sub> = +2 °C  | 0.9             | 0.9                |
| P <sub>dh</sub> T <sub>j</sub> = +7°C   | 4.01 kW         | 3.97 kW            |
| COP T <sub>j</sub> = +7°C   | 6.39            | 3.9                |
| C <sub>dh</sub> T <sub>j</sub> = +7 °C  | 0.9             | 0.9                |
| P <sub>dh</sub> T <sub>j</sub> = 12°C   | 2.07 kW         | 2.06 kW            |
| COP T <sub>j</sub> = 12°C   | 8.71            | 5.28               |
| C <sub>dh</sub> T <sub>j</sub> = +12 °C   | 0.9             | 0.9                |
| P <sub>dh</sub> T <sub>j</sub> = T <sub>biv</sub>   | 4.01 kW         | 3.97 kW            |
| COP T <sub>j</sub> = T <sub>biv</sub>   | 6.39            | 3.9                |
| 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> | 5.69 kW         | 6.17 kW            |
| COP T <sub>j</sub> = TOL or COP T <sub>j</sub> = T <sub>designh</sub> if TOL < T <sub>designh</sub>                         | 4.31            | 2.77               |
| WTOL  | 65 °C           | 65 °C              |
| P <sub>off</sub>  | 13 W            | 13 W               |
| PTO   | 20 W            | 20 W               |
| PSB   | 13 W            | 13 W               |
| PCK   | 0 W             | 0 W                |
| Supplementary Heater: Type of energy input  | Electricity     | Electricity        |
| Supplementary Heater: PSUP  | 0.55 kW         | 0 kW               |
| Annual energy consumption Q <sub>he</sub>   | 1229 kWh        | 1895 kWh           |

## Model SHERPA MONOBLOC S2 E 8

|                                     |                                |
|-------------------------------------|--------------------------------|
| Model name                          | SHERPA MONOBLOC S2 E 8         |
| Application                         | Heating (medium temp)          |
| Units                               | Outdoor                        |
| Climate zone (for heating)          | Warmer Climate, Colder Climate |
| Reversibility                       | Yes                            |
| Cooling mode application (optional) | n/a                            |
| Any additional heat sources         | n/a                            |

## General data

|                  |             |
|------------------|-------------|
| Power supply     | 1x230V 50Hz |
| Off-peak product | n/a         |

## Outdoor Air/Water

### EN 14511-4 | Heating

|  |        |
|--|--------|
| Shutting off the heat transfer medium flow | passed |
| Complete power supply failure              | passed |
| Defrost test                               | passed |
| Starting and operating test                | passed |

### EN 12102-1 | Average Climate

|                           | Low temperature | Medium temperature |
|---------------------------|-----------------|--------------------|
| Sound power level outdoor | 63 dB(A)        | 63 dB(A)           |

### EN 14825 | Average Climate

|                 | Low temperature | Medium temperature |
|-----------------|-----------------|--------------------|
| $\eta_s$        | 203.99 %        | 143.64 %           |
| Prated          | 7.90 kW         | 7.25 kW            |
| SCOP            | 5.17            | 3.67               |
| Tbiv            | -7 °C           | -7 °C              |
| TOL             | -10 °C          | -10 °C             |
| Pdh Tj = -7°C   | 6.99 kW         | 6.42 kW            |
| COP Tj = -7°C   | 3.29            | 2.31               |
| Cdh Tj = -7 °C  | 0.90            | 0.90               |
| Pdh Tj = +2°C   | 4.51 kW         | 4.03 kW            |
| COP Tj = +2°C   | 4.99            | 3.76               |
| Cdh Tj = +2 °C  | 0.90            | 0.90               |
| Pdh Tj = +7°C   | 2.81 kW         | 2.56 kW            |
| COP Tj = +7°C   | 6.72            | 4.48               |
| Cdh Tj = +7 °C  | 0.90            | 0.90               |
| Pdh Tj = 12°C   | 1.87 kW         | 1.31 kW            |
| COP Tj = 12°C   | 9.12            | 4.96               |
| Cdh Tj = +12 °C | 0.90            | 0.90               |
| Pdh Tj = Tbiv   | 6.99 kW         | 6.42 kW            |
| COP Tj = Tbiv   | 3.29            | 2.31               |

|   |             |             |
|---|-------------|-------------|
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 7.46 kW     | 6.85 kW     |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.87        | 1.98        |
| WTOL  | 65.00 °C    | 65.00 °C    |
| Poff  | 13.00 W     | 13.00 W     |
| PTO   | 20.00 W     | 20.00 W     |
| PSB   | 13.00 W     | 13.00 W     |
| PCK   | 0.00 W      | 0.00 W      |
| Supplementary Heater: Type of energy input          | Electricity | Electricity |
| Supplementary Heater: PSUP                          | 0.44 kW     | 0.40 kW     |
| Annual energy consumption Qhe                       | 3155 kWh    | 4088 kWh    |

#### EN 12102-1 | Colder Climate

|                           | Low temperature | Medium temperature |
|---------------------------|-----------------|--------------------|
| Sound power level outdoor | 63 dB(A)        | 63 dB(A)           |

#### EN 14825 | Colder Climate

|   | Low temperature | Medium temperature |
|---|-----------------|--------------------|
| $\eta_s$  | 174.6 %         | 117.73 %           |
| Prated  | 7.51 kW         | 6.06 kW            |
| SCOP  | 4.44            | 3.02               |
| Tbiv  | -15.00 °C       | -15.00 °C          |
| TOL   | -22.00 °C       | -22.00 °C          |
| Pdh Tj = -7°C                                       | 4.42 kW         | 3.95 kW            |
| COP Tj = -7°C                                       | 3.67            | 2.75               |
| Cdh Tj = -7 °C                                      | 0.90            | 0.90               |
| Pdh Tj = +2°C                                       | 2.99 kW         | 2.25 kW            |
| COP Tj = +2°C                                       | 5.50            | 3.30               |
| Cdh Tj = +2 °C                                      | 0.90            | 0.90               |
| Pdh Tj = +7°C                                       | 2.03 kW         | 1.56 kW            |
| COP Tj = +7°C                                       | 6.69            | 4.50               |
| Cdh Tj = +7 °C                                      | 0.90            | 0.90               |
| Pdh Tj = 12°C                                       | 1.87 kW         | 1.44 kW            |
| COP Tj = 12°C                                       | 9.12            | 5.83               |
| Cdh Tj = +12 °C                                     | 0.90            | 0.90               |
| Pdh Tj = Tbiv                                       | 6.12 kW         | 4.94 kW            |
| COP Tj = Tbiv                                       | 2.70            | 2.08               |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 4.78 kW         | 3.24 kW            |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.16            | 1.32               |
| WTOL  | 65.00 °C        | 65.00 °C           |
| Poff  | 13.00 W         | 13.00 W            |
| PTO   | 20.00 W         | 20.00 W            |
| PSB   | 13.00 W         | 13.00 W            |

|  |             |             |
|--|-------------|-------------|
| PCK  | 0.00 W      | 0.00 W      |
| Supplementary Heater: Type of energy input     | Electricity | Electricity |
| Supplementary Heater: PSUP                     | 2.72 kW     | 2.82 kW     |
| Annual energy consumption Q <sub>he</sub>      | 4166 kWh    | 4948 kWh    |
| P <sub>dh</sub> T <sub>j</sub> = -15°C (if TOL | 6.12        | 4.94        |
| COP T <sub>j</sub> = -15°C (if TOL             | 2.70        | 2.08        |
| C <sub>dh</sub> T <sub>j</sub> = -15 °C        | 0.90        | 0.90        |

#### EN 12102-1 | Warmer Climate

|                           |                 |                    |
|---------------------------|-----------------|--------------------|
|                           | Low temperature | Medium temperature |
| Sound power level outdoor | 63 dB(A)        | 63 dB(A)           |

#### EN 14825 | Warmer Climate

|   |                 |                    |
|---|-----------------|--------------------|
|   | Low temperature | Medium temperature |
| η <sub>s</sub>  | 274.74 %        | 185.3 %            |
| Prated  | 8.06 kW         | 8.10 kW            |
| SCOP  | 6.94            | 4.71               |
| T <sub>biv</sub>  | 7 °C            | 7 °C               |
| TOL   | 2 °C            | 2 °C               |
| P <sub>dh</sub> T <sub>j</sub> = +2°C   | 7.23 kW         | 7.80 kW            |
| COP T <sub>j</sub> = +2°C   | 4.04            | 2.68               |
| C <sub>dh</sub> T <sub>j</sub> = +2 °C  | 0.90            | 0.90               |
| P <sub>dh</sub> T <sub>j</sub> = +7°C   | 5.18 kW         | 5.22 kW            |
| COP T <sub>j</sub> = +7°C   | 6.35            | 4.07               |
| C <sub>dh</sub> T <sub>j</sub> = +7 °C  | 0.90            | 0.90               |
| P <sub>dh</sub> T <sub>j</sub> = 12°C   | 2.46 kW         | 2.36 kW            |
| COP T <sub>j</sub> = 12°C   | 9.30            | 6.07               |
| C <sub>dh</sub> T <sub>j</sub> = +12 °C   | 0.90            | 0.90               |
| P <sub>dh</sub> T <sub>j</sub> = T <sub>biv</sub>   | 5.18 kW         | 5.22 kW            |
| COP T <sub>j</sub> = T <sub>biv</sub>   | 6.35            | 4.07               |
| 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> | 7.23 kW         | 7.80 kW            |
| COP T <sub>j</sub> = TOL or COP T <sub>j</sub> = T <sub>designh</sub> if TOL < T <sub>designh</sub>                         | 4.04            | 2.68               |
| WTOL  | 65.00 °C        | 65.00 °C           |
| P <sub>off</sub>  | 13.00 W         | 13.00 W            |
| PTO   | 20.00 W         | 20.00 W            |
| PSB   | 13.00 W         | 13.00 W            |
| PCK   | 0.00 W          | 0.00 W             |
| Supplementary Heater: Type of energy input  | Electricity     | Electricity        |
| Supplementary Heater: PSUP  | 0.84 kW         | 0.32 kW            |
| Annual energy consumption Q <sub>he</sub>   | 1551 kWh        | 2303 kWh           |

## Model SHERPA MONOBLOC S2 E 10

|                                     |                                |
|-------------------------------------|--------------------------------|
| Model name                          | SHERPA MONOBLOC S2 E 10        |
| Application                         | Heating (medium temp)          |
| Units                               | Outdoor                        |
| Climate zone (for heating)          | Warmer Climate, Colder Climate |
| Reversibility                       | Yes                            |
| Cooling mode application (optional) | n/a                            |
| Any additional heat sources         | n/a                            |

## General data

|                  |             |
|------------------|-------------|
| Power supply     | 1x230V 50Hz |
| Off-peak product | n/a         |

## Outdoor Air/Water

### EN 14511-4 | Heating

|  |        |
|--|--------|
| Shutting off the heat transfer medium flow | passed |
| Complete power supply failure              | passed |
| Defrost test                               | passed |
| Starting and operating test                | passed |

### EN 12102-1 | Average Climate

|                           | Low temperature | Medium temperature |
|---------------------------|-----------------|--------------------|
| Sound power level outdoor | 65 dB(A)        | 65 dB(A)           |

### EN 14825 | Average Climate

|                 | Low temperature | Medium temperature |
|-----------------|-----------------|--------------------|
| $\eta_s$        | 201.91 %        | 145.47 %           |
| Prated          | 9.06 kW         | 8.16 kW            |
| SCOP            | 5.12            | 3.71               |
| Tbiv            | -7 °C           | -7 °C              |
| TOL             | -10 °C          | -10 °C             |
| Pdh Tj = -7°C   | 8.02 kW         | 7.21 kW            |
| COP Tj = -7°C   | 3.09            | 2.24               |
| Cdh Tj = -7 °C  | 0.9             | 0.9                |
| Pdh Tj = +2°C   | 5.06 kW         | 4.56 kW            |
| COP Tj = +2°C   | 4.92            | 3.86               |
| Cdh Tj = +2 °C  | 0.9             | 0.9                |
| Pdh Tj = +7°C   | 3.22 kW         | 2.84 kW            |
| COP Tj = +7°C   | 7.03            | 4.58               |
| Cdh Tj = +7 °C  | 0.9             | 0.9                |
| Pdh Tj = 12°C   | 1.87 kW         | 1.31 kW            |
| COP Tj = 12°C   | 9.12            | 4.96               |
| Cdh Tj = +12 °C | 0.9             | 0.9                |
| Pdh Tj = Tbiv   | 8.02 kW         | 7.21 kW            |
| COP Tj = Tbiv   | 3.09            | 2.24               |



|   |             |             |
|---|-------------|-------------|
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 7.88 kW     | 7.01 kW     |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.87        | 1.97        |
| WTOL  | 65 °C       | 65 °C       |
| Poff  | 13 W        | 13 W        |
| PTO   | 20 W        | 20 W        |
| PSB   | 13 W        | 13 W        |
| PCK   | 0 W         | 0 W         |
| Supplementary Heater: Type of energy input          | Electricity | Electricity |
| Supplementary Heater: PSUP                          | 1.18 kW     | 1.14 kW     |
| Annual energy consumption Qhe                       | 3654 kWh    | 4539 kWh    |

#### EN 12102-1 | Colder Climate

|                           | Low temperature | Medium temperature |
|---------------------------|-----------------|--------------------|
| Sound power level outdoor | 65 dB(A)        | 65 dB(A)           |

#### EN 14825 | Colder Climate

|   | Low temperature | Medium temperature |
|---|-----------------|--------------------|
| $\eta_s$  | 174.6 %         | 122.4 %            |
| Prated  | 8.27 kW         | 7.21 kW            |
| SCOP  | 4.44            | 3.14               |
| Tbiv  | -15 °C          | -15 °C             |
| TOL   | -22 °C          | -22 °C             |
| Pdh Tj = -7°C                                       | 5.42 kW         | 4.59 kW            |
| COP Tj = -7°C                                       | 3.72            | 2.72               |
| Cdh Tj = -7 °C                                      | 0.9             | 0.9                |
| Pdh Tj = +2°C                                       | 3.14 kW         | 2.82 kW            |
| COP Tj = +2°C                                       | 5.56            | 3.6                |
| Cdh Tj = +2 °C                                      | 0.9             | 0.9                |
| Pdh Tj = +7°C                                       | 2.16 kW         | 1.76 kW            |
| COP Tj = +7°C                                       | 6.55            | 4.84               |
| Cdh Tj = +7 °C                                      | 0.9             | 0.9                |
| Pdh Tj = 12°C                                       | 1.87 kW         | 1.44 kW            |
| COP Tj = 12°C                                       | 9.12            | 5.83               |
| Cdh Tj = +12 °C                                     | 0.9             | 0.9                |
| Pdh Tj = Tbiv                                       | 6.75 kW         | 5.88 kW            |
| COP Tj = Tbiv                                       | 2.59            | 2.1                |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 5.08 kW         | 3.24 kW            |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.01            | 1.32               |
| WTOL  | 65 °C           | 65 °C              |
| Poff  | 13 W            | 13 W               |
| PTO   | 20 W            | 20 W               |
| PSB   | 13 W            | 13 W               |

|  |             |             |
|--|-------------|-------------|
| PCK  | 0 W         | 0 W         |
| Supplementary Heater: Type of energy input     | Electricity | Electricity |
| Supplementary Heater: PSUP                     | 3.19 kW     | 3.97 kW     |
| Annual energy consumption Q <sub>he</sub>      | 4591 kWh    | 5665 kWh    |
| P <sub>dh</sub> T <sub>j</sub> = -15°C (if TOL | 6.75        | 5.88        |
| COP T <sub>j</sub> = -15°C (if TOL             | 2.59        | 2.1         |
| C <sub>dh</sub> T <sub>j</sub> = -15 °C        | 0.9         | 0.9         |

#### EN 12102-1 | Warmer Climate

|                           | Low temperature | Medium temperature |
|---------------------------|-----------------|--------------------|
| Sound power level outdoor | 65 dB(A)        | 65 dB(A)           |

#### EN 14825 | Warmer Climate

|   | Low temperature | Medium temperature |
|---|-----------------|--------------------|
| η <sub>s</sub>  | 279.05 %        | 193.4 %            |
| Prated  | 9.04 kW         | 9.03 kW            |
| SCOP  | 7.05            | 4.91               |
| T <sub>biv</sub>  | 7 °C            | 7 °C               |
| TOL   | 2 °C            | 2 °C               |
| P <sub>dh</sub> T <sub>j</sub> = +2°C   | 8.29 kW         | 8.42 kW            |
| COP T <sub>j</sub> = +2°C   | 3.85            | 2.68               |
| C <sub>dh</sub> T <sub>j</sub> = +2 °C  | 0.9             | 0.9                |
| P <sub>dh</sub> T <sub>j</sub> = +7°C   | 5.81 kW         | 5.81 kW            |
| COP T <sub>j</sub> = +7°C   | 6.24            | 4.16               |
| C <sub>dh</sub> T <sub>j</sub> = +7 °C  | 0.9             | 0.9                |
| P <sub>dh</sub> T <sub>j</sub> = 12°C   | 2.67 kW         | 2.74 kW            |
| COP T <sub>j</sub> = 12°C   | 9.63            | 6.64               |
| C <sub>dh</sub> T <sub>j</sub> = +12 °C   | 0.9             | 0.9                |
| P <sub>dh</sub> T <sub>j</sub> = T <sub>biv</sub>   | 5.81 kW         | 5.81 kW            |
| COP T <sub>j</sub> = T <sub>biv</sub>   | 6.24            | 4.16               |
| 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> | 8.29 kW         | 8.42 kW            |
| COP T <sub>j</sub> = TOL or COP T <sub>j</sub> = T <sub>designh</sub> if TOL < T <sub>designh</sub>                         | 3.85            | 2.68               |
| WTOL  | 65 °C           | 65 °C              |
| P <sub>off</sub>  | 13 W            | 13 W               |
| PTO   | 20 W            | 20 W               |
| PSB   | 13 W            | 13 W               |
| PCK   | 0 W             | 0 W                |
| Supplementary Heater: Type of energy input  | Electricity     | Electricity        |
| Supplementary Heater: PSUP  | 0.75 kW         | 0.61 kW            |
| Annual energy consumption Q <sub>he</sub>   | 1714 kWh        | 2458 kWh           |