

## Subtype Ecodan Zubadan 6/8-300D AA

|                     |                                                                                   |
|---------------------|-----------------------------------------------------------------------------------|
| Certificate Holder  | Mitsubishi Electric Air Conditioning Systems Europe LTD                           |
| Address             | Nettlehill Road, Houston Industrial Estate                                        |
| ZIP                 | EH54 5EQ                                                                          |
| City                | Livingston                                                                        |
| Country             | GB                                                                                |
| Certification Body  | SZU - Strojirensky zkusebni ustav (Engineering Test Institute, Public Enterprise) |
| Subtype title       | Ecodan Zubadan 6/8-300D AA                                                        |
| Registration number | 037-0026-20                                                                       |
| Heat Pump Type      | Outdoor Air/Water                                                                 |
| Refrigerant         | R32                                                                               |
| Mass of Refrigerant | 1.4 kg                                                                            |
| Certification Date  | 30.11.2020                                                                        |
| Testing basis       | HP Keymark scheme rules rev. no. 6                                                |

## Model PUD-SHWM60VAA(-BS) + E\*ST30D-\*M\*D

|                                     |                                   |
|-------------------------------------|-----------------------------------|
| Model name                          | PUD-SHWM60VAA(-BS) + E*ST30D-*M*D |
| Application                         | Heating + DHW + low temp          |
| Units                               | Indoor, Outdoor                   |
| Climate zone (for heating)          | n/a                               |
| 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 16147 | Average Climate

|                                 |             |
|---------------------------------|-------------|
| Declared load profile           | XL          |
| Efficiency $\eta_{DHW}$         | 121 %       |
| COP                             | 2.93        |
| Heating up time                 | 02:49 h:min |
| Standby power input             | 39 W        |
| Reference hot water temperature | 52.5 °C     |
| Mixed water at 40°C             | 417 l       |

#### 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 14511-2 | Heating

|             | Low temperature | Medium temperature |
|-------------|-----------------|--------------------|
| Heat output | 5 kW            | 5 kW               |
| El input    | 1 kW            | 1.89 kW            |
| COP         | 4.99            | 2.65               |

#### EN 12102-1 | Average Climate

|                           | Low temperature | Medium temperature |
|---------------------------|-----------------|--------------------|
| Sound power level indoor  | 41 dB(A)        | 41 dB(A)           |
| Sound power level outdoor | 55 dB(A)        | 55 dB(A)           |

#### EN 14825 | Average Climate

|          | Low temperature | Medium temperature |
|----------|-----------------|--------------------|
| $\eta_s$ | 178 %           | 134 %              |
| Prated   | 6 kW            | 6 kW               |
| SCOP     | 4.52            | 3.41               |

|                                                     |             |             |
|-----------------------------------------------------|-------------|-------------|
| Tbiv                                                | -10 °C      | -10 °C      |
| TOL                                                 | -28 °C      | -28 °C      |
| Pdh Tj = -7°C                                       | 5.3 kW      | 5.3 kW      |
| COP Tj = -7°C                                       | 3.29        | 2.14        |
| Cdh Tj = -7 °C                                      | 0.99        | 0.99        |
| Pdh Tj = +2°C                                       | 4.7 kW      | 4.3 kW      |
| COP Tj = +2°C                                       | 4.45        | 3.23        |
| Cdh Tj = +2 °C                                      | 0.98        | 0.99        |
| Pdh Tj = +7°C                                       | 5.1 kW      | 5.3 kW      |
| COP Tj = +7°C                                       | 5.67        | 4.91        |
| Cdh Tj = +7 °C                                      | 0.98        | 0.99        |
| Pdh Tj = 12°C                                       | 3.2 kW      | 3.1 kW      |
| COP Tj = 12°C                                       | 7.8         | 6.89        |
| Cdh Tj = +12 °C                                     | 0.96        | 0.97        |
| Pdh Tj = Tbiv                                       | 6 kW        | 6 kW        |
| COP Tj = Tbiv                                       | 3.21        | 2.02        |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 6 kW        | 6 kW        |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 3.21        | 2.02        |
| WTOL                                                | 60 °C       | 60 °C       |
| Poff                                                | 15 W        | 15 W        |
| PTO                                                 | 15 W        | 15 W        |
| PSB                                                 | 15 W        | 15 W        |
| PCK                                                 | 0 W         | 0 W         |
| Supplementary Heater: Type of energy input          | Electricity | Electricity |
| Supplementary Heater: PSUP                          | 0 kW        | 0 kW        |
| Annual energy consumption Qhe                       | 2743 kWh    | 3631 kWh    |

## Model PUD-SHWM60VAA(-BS) + E\*ST30D-M\*D

|                                     |                                  |
|-------------------------------------|----------------------------------|
| Model name                          | PUD-SHWM60VAA(-BS) + E*ST30D-M*D |
| Application                         | Heating + DHW + low temp         |
| Units                               | Indoor, Outdoor                  |
| Climate zone (for heating)          | n/a                              |
| 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 16147 | Average Climate

|                                 |             |
|---------------------------------|-------------|
| Declared load profile           | XL          |
| Efficiency $\eta_{DHW}$         | 121 %       |
| COP                             | 2.93        |
| Heating up time                 | 02:49 h:min |
| Standby power input             | 39 W        |
| Reference hot water temperature | 52.5 °C     |
| Mixed water at 40°C             | 417 l       |

### 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 14511-2 | Heating

|             | Low temperature | Medium temperature |
|-------------|-----------------|--------------------|
| Heat output | 5 kW            | 5 kW               |
| El input    | 1 kW            | 1.89 kW            |
| COP         | 4.99            | 2.65               |

### EN 12102-1 | Average Climate

|                           | Low temperature | Medium temperature |
|---------------------------|-----------------|--------------------|
| Sound power level indoor  | 41 dB(A)        | 41 dB(A)           |
| Sound power level outdoor | 55 dB(A)        | 55 dB(A)           |

### EN 14825 | Average Climate

|          | Low temperature | Medium temperature |
|----------|-----------------|--------------------|
| $\eta_s$ | 178 %           | 134 %              |
| Prated   | 6 kW            | 6 kW               |
| SCOP     | 4.52            | 3.41               |

|                                                     |             |             |
|-----------------------------------------------------|-------------|-------------|
| Tbiv                                                | -10 °C      | -10 °C      |
| TOL                                                 | -28 °C      | -28 °C      |
| Pdh Tj = -7°C                                       | 5.3 kW      | 5.3 kW      |
| COP Tj = -7°C                                       | 3.29        | 2.14        |
| Cdh Tj = -7 °C                                      | 0.99        | 0.99        |
| Pdh Tj = +2°C                                       | 4.7 kW      | 4.3 kW      |
| COP Tj = +2°C                                       | 4.45        | 3.23        |
| Cdh Tj = +2 °C                                      | 0.98        | 0.99        |
| Pdh Tj = +7°C                                       | 5.1 kW      | 5.3 kW      |
| COP Tj = +7°C                                       | 5.67        | 4.91        |
| Cdh Tj = +7 °C                                      | 0.98        | 0.99        |
| Pdh Tj = 12°C                                       | 3.2 kW      | 3.1 kW      |
| COP Tj = 12°C                                       | 7.8         | 6.89        |
| Cdh Tj = +12 °C                                     | 0.96        | 0.97        |
| Pdh Tj = Tbiv                                       | 6 kW        | 6 kW        |
| COP Tj = Tbiv                                       | 3.21        | 2.02        |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 6 kW        | 6 kW        |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 3.21        | 2.02        |
| WTOL                                                | 60 °C       | 60 °C       |
| Poff                                                | 15 W        | 15 W        |
| PTO                                                 | 15 W        | 15 W        |
| PSB                                                 | 15 W        | 15 W        |
| PCK                                                 | 0 W         | 0 W         |
| Supplementary Heater: Type of energy input          | Electricity | Electricity |
| Supplementary Heater: PSUP                          | 0 kW        | 0 kW        |
| Annual energy consumption Qhe                       | 2743 kWh    | 3631 kWh    |

## Model PUD-SHWM80VAA(-BS) + E\*ST30D-\*M\*D

|                                     |                                   |
|-------------------------------------|-----------------------------------|
| Model name                          | PUD-SHWM80VAA(-BS) + E*ST30D-*M*D |
| Application                         | Heating + DHW + low temp          |
| Units                               | Indoor, Outdoor                   |
| Climate zone (for heating)          | n/a                               |
| 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 16147 | Average Climate

|                                 |             |
|---------------------------------|-------------|
| Declared load profile           | XL          |
| Efficiency $\eta_{DHW}$         | 121 %       |
| COP                             | 2.93        |
| Heating up time                 | 02:49 h:min |
| Standby power input             | 39 W        |
| Reference hot water temperature | 52.5 °C     |
| Mixed water at 40°C             | 417 l       |

#### 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 14511-2 | Heating

|             | Low temperature | Medium temperature |
|-------------|-----------------|--------------------|
| Heat output | 6 kW            | 6 kW               |
| El input    | 1.19 kW         | 2.26 kW            |
| COP         | 5.03            | 2.65               |

#### EN 12102-1 | Average Climate

|                           | Low temperature | Medium temperature |
|---------------------------|-----------------|--------------------|
| Sound power level indoor  | 41 dB(A)        | 41 dB(A)           |
| Sound power level outdoor | 56 dB(A)        | 56 dB(A)           |

#### EN 14825 | Average Climate

|          | Low temperature | Medium temperature |
|----------|-----------------|--------------------|
| $\eta_s$ | 181 %           | 135 %              |
| Prated   | 8 kW            | 8 kW               |
| SCOP     | 4.6             | 3.45               |

|                                                     |             |             |
|-----------------------------------------------------|-------------|-------------|
| Tbiv                                                | -10 °C      | -10 °C      |
| TOL                                                 | -28 °C      | -28 °C      |
| Pdh Tj = -7°C                                       | 7.1 kW      | 7.1 kW      |
| COP Tj = -7°C                                       | 3.11        | 2.14        |
| Cdh Tj = -7 °C                                      | 0.99        | 1           |
| Pdh Tj = +2°C                                       | 4.7 kW      | 4.3 kW      |
| COP Tj = +2°C                                       | 4.43        | 3.23        |
| Cdh Tj = +2 °C                                      | 0.99        | 0.99        |
| Pdh Tj = +7°C                                       | 5.1 kW      | 5.3 kW      |
| COP Tj = +7°C                                       | 6           | 4.91        |
| Cdh Tj = +7 °C                                      | 0.98        | 0.99        |
| Pdh Tj = 12°C                                       | 3.2 kW      | 3.1 kW      |
| COP Tj = 12°C                                       | 8.21        | 7.05        |
| Cdh Tj = +12 °C                                     | 0.96        | 0.97        |
| Pdh Tj = Tbiv                                       | 8 kW        | 8 kW        |
| COP Tj = Tbiv                                       | 3.09        | 1.97        |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 8 kW        | 8 kW        |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 3.09        | 1.97        |
| WTOL                                                | 60 °C       | 60 °C       |
| Poff                                                | 15 W        | 15 W        |
| PTO                                                 | 15 W        | 15 W        |
| PSB                                                 | 15 W        | 15 W        |
| PCK                                                 | 0 W         | 0 W         |
| Supplementary Heater: Type of energy input          | Electricity | Electricity |
| Supplementary Heater: PSUP                          | 0 kW        | 0 kW        |
| Annual energy consumption Qhe                       | 3597 kWh    | 4793 kWh    |

## Model PUD-SHWM80VAA(-BS) + E\*ST30D-M\*D

|                                     |                                  |
|-------------------------------------|----------------------------------|
| Model name                          | PUD-SHWM80VAA(-BS) + E*ST30D-M*D |
| Application                         | Heating + DHW + low temp         |
| Units                               | Indoor, Outdoor                  |
| Climate zone (for heating)          | n/a                              |
| 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 16147 | Average Climate

|                                 |             |
|---------------------------------|-------------|
| Declared load profile           | XL          |
| Efficiency $\eta_{DHW}$         | 121 %       |
| COP                             | 2.93        |
| Heating up time                 | 02:49 h:min |
| Standby power input             | 39 W        |
| Reference hot water temperature | 52.5 °C     |
| Mixed water at 40°C             | 417 l       |

### 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 14511-2 | Heating

|             | Low temperature | Medium temperature |
|-------------|-----------------|--------------------|
| Heat output | 6 kW            | 6 kW               |
| El input    | 1.19 kW         | 2.26 kW            |
| COP         | 5.03            | 2.65               |

### EN 12102-1 | Average Climate

|                           | Low temperature | Medium temperature |
|---------------------------|-----------------|--------------------|
| Sound power level indoor  | 41 dB(A)        | 41 dB(A)           |
| Sound power level outdoor | 56 dB(A)        | 56 dB(A)           |

### EN 14825 | Average Climate

|          | Low temperature | Medium temperature |
|----------|-----------------|--------------------|
| $\eta_s$ | 181 %           | 135 %              |
| Prated   | 8 kW            | 8 kW               |
| SCOP     | 4.6             | 3.45               |

|                                                     |             |             |
|-----------------------------------------------------|-------------|-------------|
| Tbiv                                                | -10 °C      | -10 °C      |
| TOL                                                 | -28 °C      | -28 °C      |
| Pdh Tj = -7°C                                       | 7.1 kW      | 7.1 kW      |
| COP Tj = -7°C                                       | 3.11        | 2.14        |
| Cdh Tj = -7 °C                                      | 0.99        | 1           |
| Pdh Tj = +2°C                                       | 4.7 kW      | 4.3 kW      |
| COP Tj = +2°C                                       | 4.43        | 3.23        |
| Cdh Tj = +2 °C                                      | 0.99        | 0.99        |
| Pdh Tj = +7°C                                       | 5.1 kW      | 5.3 kW      |
| COP Tj = +7°C                                       | 6           | 4.91        |
| Cdh Tj = +7 °C                                      | 0.98        | 0.99        |
| Pdh Tj = 12°C                                       | 3.2 kW      | 3.1 kW      |
| COP Tj = 12°C                                       | 8.21        | 7.05        |
| Cdh Tj = +12 °C                                     | 0.96        | 0.97        |
| Pdh Tj = Tbiv                                       | 8 kW        | 8 kW        |
| COP Tj = Tbiv                                       | 3.09        | 1.97        |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 8 kW        | 8 kW        |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 3.09        | 1.97        |
| WTOL                                                | 60 °C       | 60 °C       |
| Poff                                                | 15 W        | 15 W        |
| PTO                                                 | 15 W        | 15 W        |
| PSB                                                 | 15 W        | 15 W        |
| PCK                                                 | 0 W         | 0 W         |
| Supplementary Heater: Type of energy input          | Electricity | Electricity |
| Supplementary Heater: PSUP                          | 0 kW        | 0 kW        |
| Annual energy consumption Qhe                       | 3597 kWh    | 4793 kWh    |

## Model PUD-SHWM80YAA(-BS) + E\*ST30D-\*M\*D

|                                     |                                   |
|-------------------------------------|-----------------------------------|
| Model name                          | PUD-SHWM80YAA(-BS) + E*ST30D-*M*D |
| Application                         | Heating + DHW + low temp          |
| Units                               | Indoor, Outdoor                   |
| Climate zone (for heating)          | n/a                               |
| Cooling mode application (optional) | n/a                               |
| Any additional heat sources         | n/a                               |

## General data

|                  |             |
|------------------|-------------|
| Power supply     | 3x400V 50Hz |
| Off-peak product | n/a         |

## Outdoor Air/Water

### EN 16147 | Average Climate

|                                 |             |
|---------------------------------|-------------|
| Declared load profile           | XL          |
| Efficiency $\eta_{DHW}$         | 121 %       |
| COP                             | 2.93        |
| Heating up time                 | 02:49 h:min |
| Standby power input             | 39 W        |
| Reference hot water temperature | 52.5 °C     |
| Mixed water at 40°C             | 417 l       |

### 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 14511-2 | Heating

|             | Low temperature | Medium temperature |
|-------------|-----------------|--------------------|
| Heat output | 6 kW            | 6 kW               |
| El input    | 1.19 kW         | 2.26 kW            |
| COP         | 5.03            | 2.65               |

### EN 12102-1 | Average Climate

|                           | Low temperature | Medium temperature |
|---------------------------|-----------------|--------------------|
| Sound power level indoor  | 41 dB(A)        | 41 dB(A)           |
| Sound power level outdoor | 56 dB(A)        | 56 dB(A)           |

### EN 14825 | Average Climate

|          | Low temperature | Medium temperature |
|----------|-----------------|--------------------|
| $\eta_s$ | 179 %           | 134 %              |
| Prated   | 8 kW            | 8 kW               |
| SCOP     | 4.55            | 3.42               |

|                                                     |             |             |
|-----------------------------------------------------|-------------|-------------|
| Tbiv                                                | -10 °C      | -10 °C      |
| TOL                                                 | -28 °C      | -28 °C      |
| Pdh Tj = -7°C                                       | 7.1 kW      | 7.1 kW      |
| COP Tj = -7°C                                       | 3.11        | 2.14        |
| Cdh Tj = -7 °C                                      | 0.99        | 0.99        |
| Pdh Tj = +2°C                                       | 4.7 kW      | 4.3 kW      |
| COP Tj = +2°C                                       | 4.44        | 3.23        |
| Cdh Tj = +2 °C                                      | 0.98        | 0.98        |
| Pdh Tj = +7°C                                       | 5.1 kW      | 5.3 kW      |
| COP Tj = +7°C                                       | 6           | 4.91        |
| Cdh Tj = +7 °C                                      | 0.97        | 0.98        |
| Pdh Tj = 12°C                                       | 3.2 kW      | 3.1 kW      |
| COP Tj = 12°C                                       | 8.21        | 7.05        |
| Cdh Tj = +12 °C                                     | 0.94        | 0.95        |
| Pdh Tj = Tbiv                                       | 8 kW        | 8 kW        |
| COP Tj = Tbiv                                       | 3.09        | 1.97        |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 8 kW        | 8 kW        |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 3.09        | 1.97        |
| WTOL                                                | 60 °C       | 60 °C       |
| Poff                                                | 22 W        | 22 W        |
| PTO                                                 | 22 W        | 22 W        |
| PSB                                                 | 22 W        | 22 W        |
| PCK                                                 | 0 W         | 0 W         |
| Supplementary Heater: Type of energy input          | Electricity | Electricity |
| Supplementary Heater: PSUP                          | 0 kW        | 0 kW        |
| Annual energy consumption Qhe                       | 3632 kWh    | 4832 kWh    |

## Model PUD-SHWM80YAA(-BS) + E\*ST30D-M\*D

|                                     |                                  |
|-------------------------------------|----------------------------------|
| Model name                          | PUD-SHWM80YAA(-BS) + E*ST30D-M*D |
| Application                         | Heating + DHW + low temp         |
| Units                               | Indoor, Outdoor                  |
| Climate zone (for heating)          | n/a                              |
| Cooling mode application (optional) | n/a                              |
| Any additional heat sources         | n/a                              |

## General data

|                  |             |
|------------------|-------------|
| Power supply     | 3x400V 50Hz |
| Off-peak product | n/a         |

## Outdoor Air/Water

### EN 16147 | Average Climate

|                                 |             |
|---------------------------------|-------------|
| Declared load profile           | XL          |
| Efficiency $\eta_{DHW}$         | 121 %       |
| COP                             | 2.93        |
| Heating up time                 | 02:49 h:min |
| Standby power input             | 39 W        |
| Reference hot water temperature | 52.5 °C     |
| Mixed water at 40°C             | 417 l       |

### 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 14511-2 | Heating

|             | Low temperature | Medium temperature |
|-------------|-----------------|--------------------|
| Heat output | 6 kW            | 6 kW               |
| El input    | 1.19 kW         | 2.26 kW            |
| COP         | 5.03            | 2.65               |

### EN 12102-1 | Average Climate

|                           | Low temperature | Medium temperature |
|---------------------------|-----------------|--------------------|
| Sound power level indoor  | 41 dB(A)        | 41 dB(A)           |
| Sound power level outdoor | 56 dB(A)        | 56 dB(A)           |

### EN 14825 | Average Climate

|          | Low temperature | Medium temperature |
|----------|-----------------|--------------------|
| $\eta_s$ | 179 %           | 134 %              |
| Prated   | 8 kW            | 8 kW               |
| SCOP     | 4.55            | 3.42               |

|                                                     |             |             |
|-----------------------------------------------------|-------------|-------------|
| Tbiv                                                | -10 °C      | -10 °C      |
| TOL                                                 | -28 °C      | -28 °C      |
| Pdh Tj = -7°C                                       | 7.1 kW      | 7.1 kW      |
| COP Tj = -7°C                                       | 3.11        | 2.14        |
| Cdh Tj = -7 °C                                      | 0.99        | 0.99        |
| Pdh Tj = +2°C                                       | 4.7 kW      | 4.3 kW      |
| COP Tj = +2°C                                       | 4.44        | 3.23        |
| Cdh Tj = +2 °C                                      | 0.98        | 0.98        |
| Pdh Tj = +7°C                                       | 5.1 kW      | 5.3 kW      |
| COP Tj = +7°C                                       | 6           | 4.91        |
| Cdh Tj = +7 °C                                      | 0.97        | 0.98        |
| Pdh Tj = 12°C                                       | 3.2 kW      | 3.1 kW      |
| COP Tj = 12°C                                       | 8.21        | 7.05        |
| Cdh Tj = +12 °C                                     | 0.94        | 0.95        |
| Pdh Tj = Tbiv                                       | 8 kW        | 8 kW        |
| COP Tj = Tbiv                                       | 3.09        | 1.97        |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 8 kW        | 8 kW        |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 3.09        | 1.97        |
| WTOL                                                | 60 °C       | 60 °C       |
| Poff                                                | 22 W        | 22 W        |
| PTO                                                 | 22 W        | 22 W        |
| PSB                                                 | 22 W        | 22 W        |
| PCK                                                 | 0 W         | 0 W         |
| Supplementary Heater: Type of energy input          | Electricity | Electricity |
| Supplementary Heater: PSUP                          | 0 kW        | 0 kW        |
| Annual energy consumption Qhe                       | 3632 kWh    | 4832 kWh    |