

This information was downloaded from the HP KEYMARK database on 25 May 2020

|                            |   |          |            |
|----------------------------|---|----------|------------|
| Summary of                 | Ecodan Power Inverter 10                              | Reg. No. | 011-1W0108 |
| Certificate Holder         |   |          |            |
| Name                       | Mitsubishi Electric Europe B.V.                       |          |            |
| Address                    | Mitsubishi-Electric-Platz 1                           | Zip      | 40882      |
| City                       | Ratingen  | Country  | Germany    |
| Certification Body         | DIN CERTCO Gesellschaft für Konformitätsbewertung mbH |          |            |
| Name of testing laboratory | CETIAT  |          |            |
| Subtype title              | Ecodan Power Inverter 10                              |          |            |
| Heat Pump Type             | Outdoor Air/Water                                     |          |            |
| Refrigerant                | HFC-410a  |          |            |
| Mass Of Refrigerant        | 4.6 kg  |          |            |
| Certification Date         | 27.06.2017  |          |            |
| Testing basis              | n/a   |          |            |

## Model: PUAZ-SW100VHA(-BS) & EHSC-M\*C

### General Data

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

### Heating

#### EN 14511-2

|                        | Low temperature        | Medium temperature     |
|------------------------|------------------------|------------------------|
| Heat output            | 11.20 kW               | 11.20 kW               |
| El input               | 2.52 kW                | 4.46 kW                |
| COP                    | 4.44                   | 2.51                   |
| Indoor water flow rate | 1.93 m <sup>3</sup> /h | 1.20 m <sup>3</sup> /h |

#### EN 14511-4

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

### Average Climate

| <b>EN 12102-1</b>         |                        |                           |
|---------------------------|------------------------|---------------------------|
|                           | <b>Low temperature</b> | <b>Medium temperature</b> |
| Sound power level indoor  | 40 dB(A)               |                           |
| Sound power level outdoor | 70 dB(A)               |                           |

| <b>EN 14825</b> |                        |                           |
|-----------------|------------------------|---------------------------|
|                 | <b>Low temperature</b> | <b>Medium temperature</b> |
| $\eta_s$        | 164 %                  | 125 %                     |
| Prated          | 10.40 kW               | 10.00 kW                  |
| SCOP            | 4.16                   | 3.20                      |
| Tbiv            | -7 °C                  | -7 °C                     |
| TOL             | -20 °C                 | -20 °C                    |
| Pdh Tj = -7 °C  | 9.20 kW                | 8.90 kW                   |
| COP Tj = -7 °C  | 2.47                   | 1.79                      |
| Cdh             | 0.98                   | 0.98                      |
| Pdh Tj = +2 °C  | 5.60 kW                | 5.40 kW                   |
| COP Tj = +2 °C  | 4.24                   | 3.18                      |
| Cdh             | 0.98                   | 0.98                      |
| Pdh Tj = +7 °C  | 4.30 kW                | 3.90 kW                   |
| COP Tj = +7 °C  | 5.49                   | 4.37                      |

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|  |             |             |
|--|-------------|-------------|
| Cdh  | 0.98        | 0.98        |
| Pdh Tj = 12 °C                             | 7.30 kW     | 7.00 kW     |
| COP Tj = 12 °C                             | 7.43        | 6.58        |
| Cdh  | 0.98        | 0.98        |
| Pdh Tj = Tbiv                              | 9.20 kW     | 8.90 kW     |
| COP Tj = Tbiv                              | 2.47        | 1.79        |
| Pdh Tj = TOL                               | 6.50 kW     | 6.50 kW     |
| COP Tj = TOL                               | 1.40        | 1.33        |
| 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                 | 1.80 kW     | 1.70 kW     |
| Annual energy consumption Qhe              | 5027 kWh    | 6331 kWh    |

## Model: PUAZ-SW100VHA(-BS) & EHSC-VM\*C

### General Data

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

### Heating

#### EN 14511-2

|                        | Low temperature        | Medium temperature     |
|------------------------|------------------------|------------------------|
| Heat output            | 11.20 kW               | 11.20 kW               |
| El input               | 2.52 kW                | 4.46 kW                |
| COP                    | 4.44                   | 2.51                   |
| Indoor water flow rate | 1.93 m <sup>3</sup> /h | 1.20 m <sup>3</sup> /h |

#### EN 14511-4

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

### Average Climate

| <b>EN 12102-1</b>         |                        |                           |
|---------------------------|------------------------|---------------------------|
|                           | <b>Low temperature</b> | <b>Medium temperature</b> |
| Sound power level indoor  | 40 dB(A)               |                           |
| Sound power level outdoor | 70 dB(A)               |                           |

| <b>EN 14825</b> |                        |                           |
|-----------------|------------------------|---------------------------|
|                 | <b>Low temperature</b> | <b>Medium temperature</b> |
| $\eta_s$        | 164 %                  | 125 %                     |
| Prated          | 10.40 kW               | 10.00 kW                  |
| SCOP            | 4.16                   | 3.20                      |
| Tbiv            | -7 °C                  | -7 °C                     |
| TOL             | -20 °C                 | -20 °C                    |
| Pdh Tj = -7°C   | 9.20 kW                | 8.90 kW                   |
| COP Tj = -7°C   | 2.47                   | 1.79                      |
| Cdh             | 0.98                   | 0.98                      |
| Pdh Tj = +2°C   | 5.60 kW                | 5.40 kW                   |
| COP Tj = +2°C   | 4.24                   | 3.18                      |
| Cdh             | 0.98                   | 0.98                      |
| Pdh Tj = +7°C   | 4.30 kW                | 3.90 kW                   |
| COP Tj = +7°C   | 5.49                   | 4.37                      |

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|  |             |             |
|--|-------------|-------------|
| Cdh  | 0.98        | 0.98        |
| Pdh Tj = 12 °C                             | 7.30 kW     | 7.00 kW     |
| COP Tj = 12 °C                             | 7.43        | 6.58        |
| Cdh  | 0.98        | 0.98        |
| Pdh Tj = Tbiv                              | 9.20 kW     | 8.90 kW     |
| COP Tj = Tbiv                              | 2.47        | 1.79        |
| Pdh Tj = TOL                               | 6.50 kW     | 6.50 kW     |
| COP Tj = TOL                               | 1.40        | 1.33        |
| 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                 | 1.80 kW     | 1.70 kW     |
| Annual energy consumption Qhe              | 5027 kWh    | 6331 kWh    |

## Model: PUAZ-SW100VHA(-BS) & EHSC-YM\*C

### General Data

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

### Heating

#### EN 14511-2

|                        | Low temperature        | Medium temperature     |
|------------------------|------------------------|------------------------|
| Heat output            | 11.20 kW               | 11.20 kW               |
| El input               | 2.52 kW                | 4.46 kW                |
| COP                    | 4.44                   | 2.51                   |
| Indoor water flow rate | 1.93 m <sup>3</sup> /h | 1.20 m <sup>3</sup> /h |

#### EN 14511-4

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

### Average Climate



| <b>EN 12102-1</b>         |                        |                           |
|---------------------------|------------------------|---------------------------|
|                           | <b>Low temperature</b> | <b>Medium temperature</b> |
| Sound power level indoor  | 40 dB(A)               |                           |
| Sound power level outdoor | 70 dB(A)               |                           |

| <b>EN 14825</b> |                        |                           |
|-----------------|------------------------|---------------------------|
|                 | <b>Low temperature</b> | <b>Medium temperature</b> |
| $\eta_s$        | 164 %                  | 125 %                     |
| Prated          | 10.40 kW               | 10.00 kW                  |
| SCOP            | 4.16                   | 3.20                      |
| Tbiv            | -7 °C                  | -7 °C                     |
| TOL             | -20 °C                 | -20 °C                    |
| Pdh Tj = -7°C   | 9.20 kW                | 8.90 kW                   |
| COP Tj = -7°C   | 2.47                   | 1.79                      |
| Cdh             | 0.98                   | 0.98                      |
| Pdh Tj = +2°C   | 5.60 kW                | 5.40 kW                   |
| COP Tj = +2°C   | 4.24                   | 3.18                      |
| Cdh             | 0.98                   | 0.98                      |
| Pdh Tj = +7°C   | 4.30 kW                | 3.90 kW                   |
| COP Tj = +7°C   | 5.49                   | 4.37                      |

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|  |             |             |
|--|-------------|-------------|
| Cdh  | 0.98        | 0.98        |
| Pdh Tj = 12 °C                             | 7.30 kW     | 7.00 kW     |
| COP Tj = 12 °C                             | 7.43        | 6.58        |
| Cdh  | 0.98        | 0.98        |
| Pdh Tj = Tbiv                              | 9.20 kW     | 8.90 kW     |
| COP Tj = Tbiv                              | 2.47        | 1.79        |
| Pdh Tj = TOL                               | 6.50 kW     | 6.50 kW     |
| COP Tj = TOL                               | 1.40        | 1.33        |
| 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                 | 1.80 kW     | 1.70 kW     |
| Annual energy consumption Qhe              | 5027 kWh    | 6331 kWh    |

## Model: PUAZ-SW100YHA(-BS) & EHSC-M\*C

### General Data

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

### Heating

#### EN 14511-2

|                        | Low temperature        | Medium temperature     |
|------------------------|------------------------|------------------------|
| Heat output            | 11.20 kW               | 11.20 kW               |
| El input               | 2.52 kW                | 4.46 kW                |
| COP                    | 4.44                   | 2.51                   |
| Indoor water flow rate | 1.93 m <sup>3</sup> /h | 1.20 m <sup>3</sup> /h |

#### EN 14511-4

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

### Average Climate

| <b>EN 12102-1</b>         |                        |                           |
|---------------------------|------------------------|---------------------------|
|                           | <b>Low temperature</b> | <b>Medium temperature</b> |
| Sound power level indoor  | 40 dB(A)               |                           |
| Sound power level outdoor | 70 dB(A)               |                           |

| <b>EN 14825</b> |                        |                           |
|-----------------|------------------------|---------------------------|
|                 | <b>Low temperature</b> | <b>Medium temperature</b> |
| $\eta_s$        | 164 %                  | 125 %                     |
| Prated          | 10.40 kW               | 10.00 kW                  |
| SCOP            | 4.16                   | 3.20                      |
| Tbiv            | -7 °C                  | -7 °C                     |
| TOL             | -20 °C                 | -20 °C                    |
| Pdh Tj = -7°C   | 9.20 kW                | 8.90 kW                   |
| COP Tj = -7°C   | 2.47                   | 1.79                      |
| Cdh             | 0.99                   | 0.99                      |
| Pdh Tj = +2°C   | 5.60 kW                | 5.40 kW                   |
| COP Tj = +2°C   | 4.27                   | 3.21                      |
| Cdh             | 0.99                   | 0.99                      |
| Pdh Tj = +7°C   | 4.30 kW                | 3.90 kW                   |
| COP Tj = +7°C   | 5.54                   | 4.39                      |

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|  |             |             |
|--|-------------|-------------|
| Cdh  | 0.99        | 0.99        |
| Pdh Tj = 12 °C                             | 7.30 kW     | 7.00 kW     |
| COP Tj = 12 °C                             | 7.43        | 6.58        |
| Cdh  | 0.99        | 0.99        |
| Pdh Tj = Tbiv                              | 9.20 kW     | 8.90 kW     |
| COP Tj = Tbiv                              | 2.47        | 1.79        |
| Pdh Tj = TOL                               | 6.50 kW     | 6.50 kW     |
| COP Tj = TOL                               | 1.33        | 1.40        |
| 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                 | 1.80 kW     | 1.70 kW     |
| Annual energy consumption Qhe              | 4993 kWh    | 6288 kWh    |

## Model: PUAZ-SW100YHA(-BS) & EHSC-VM\*C

### General Data

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

### Heating

#### EN 14511-2

|                        | Low temperature        | Medium temperature     |
|------------------------|------------------------|------------------------|
| Heat output            | 11.20 kW               | 11.20 kW               |
| El input               | 2.52 kW                | 4.46 kW                |
| COP                    | 4.44                   | 2.51                   |
| Indoor water flow rate | 1.93 m <sup>3</sup> /h | 1.20 m <sup>3</sup> /h |

#### EN 14511-4

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

### Average Climate

| <b>EN 12102-1</b>         |                        |                           |
|---------------------------|------------------------|---------------------------|
|                           | <b>Low temperature</b> | <b>Medium temperature</b> |
| Sound power level indoor  | 40 dB(A)               |                           |
| Sound power level outdoor | 70 dB(A)               |                           |

| <b>EN 14825</b> |                        |                           |
|-----------------|------------------------|---------------------------|
|                 | <b>Low temperature</b> | <b>Medium temperature</b> |
| $\eta_s$        | 164 %                  | 125 %                     |
| Prated          | 10.40 kW               | 10.00 kW                  |
| SCOP            | 4.16                   | 3.20                      |
| Tbiv            | -7 °C                  | -7 °C                     |
| TOL             | -20 °C                 | -20 °C                    |
| Pdh Tj = -7°C   | 9.20 kW                | 8.90 kW                   |
| COP Tj = -7°C   | 2.47                   | 1.79                      |
| Cdh             | 0.99                   | 0.99                      |
| Pdh Tj = +2°C   | 5.60 kW                | 5.40 kW                   |
| COP Tj = +2°C   | 4.27                   | 3.21                      |
| Cdh             | 0.99                   | 0.99                      |
| Pdh Tj = +7°C   | 4.30 kW                | 3.90 kW                   |
| COP Tj = +7°C   | 5.54                   | 4.39                      |

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|  |             |             |
|--|-------------|-------------|
| Cdh  | 0.99        | 0.99        |
| Pdh Tj = 12 °C                             | 7.30 kW     | 7.00 kW     |
| COP Tj = 12 °C                             | 7.43        | 6.58        |
| Cdh  | 0.99        | 0.99        |
| Pdh Tj = Tbiv                              | 9.20 kW     | 8.90 kW     |
| COP Tj = Tbiv                              | 2.47        | 1.79        |
| Pdh Tj = TOL                               | 6.50 kW     | 6.50 kW     |
| COP Tj = TOL                               | 1.33        | 1.40        |
| 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                 | 1.80 kW     | 1.70 kW     |
| Annual energy consumption Qhe              | 4993 kWh    | 6288 kWh    |



## Model: PUAZ-SW100YHA(-BS) & EHSC-YM\*C

### General Data

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

### Heating

#### EN 14511-2

|                        | Low temperature        | Medium temperature     |
|------------------------|------------------------|------------------------|
| Heat output            | 11.20 kW               | 11.20 kW               |
| El input               | 2.52 kW                | 4.46 kW                |
| COP                    | 4.44                   | 2.51                   |
| Indoor water flow rate | 1.93 m <sup>3</sup> /h | 1.20 m <sup>3</sup> /h |

#### EN 14511-4

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

### Average Climate

| <b>EN 12102-1</b>         |                        |                           |
|---------------------------|------------------------|---------------------------|
|                           | <b>Low temperature</b> | <b>Medium temperature</b> |
| Sound power level indoor  | 40 dB(A)               |                           |
| Sound power level outdoor | 70 dB(A)               |                           |

| <b>EN 14825</b> |                        |                           |
|-----------------|------------------------|---------------------------|
|                 | <b>Low temperature</b> | <b>Medium temperature</b> |
| $\eta_s$        | 164 %                  | 125 %                     |
| Prated          | 10.40 kW               | 10.00 kW                  |
| SCOP            | 4.16                   | 3.20                      |
| Tbiv            | -7 °C                  | -7 °C                     |
| TOL             | -20 °C                 | -20 °C                    |
| Pdh Tj = -7°C   | 9.20 kW                | 8.90 kW                   |
| COP Tj = -7°C   | 2.47                   | 1.79                      |
| Cdh             | 0.99                   | 0.99                      |
| Pdh Tj = +2°C   | 5.60 kW                | 5.40 kW                   |
| COP Tj = +2°C   | 4.27                   | 3.21                      |
| Cdh             | 0.99                   | 0.99                      |
| Pdh Tj = +7°C   | 4.30 kW                | 3.90 kW                   |
| COP Tj = +7°C   | 5.54                   | 4.39                      |

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|  |             |             |
|--|-------------|-------------|
| Cdh  | 0.99        | 0.99        |
| Pdh Tj = 12 °C                             | 7.30 kW     | 7.00 kW     |
| COP Tj = 12 °C                             | 7.43        | 6.58        |
| Cdh  | 0.99        | 0.99        |
| Pdh Tj = Tbiv                              | 9.20 kW     | 8.90 kW     |
| COP Tj = Tbiv                              | 2.47        | 1.79        |
| Pdh Tj = TOL                               | 6.50 kW     | 6.50 kW     |
| COP Tj = TOL                               | 1.33        | 1.40        |
| 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                 | 1.80 kW     | 1.70 kW     |
| Annual energy consumption Qhe              | 4993 kWh    | 6288 kWh    |

## Model: PUAZ-SW100VHA(-BS) & EHST20C-M\*C

### General Data

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

### Heating

#### EN 14511-2

|                        | Low temperature        | Medium temperature |
|------------------------|------------------------|--------------------|
| Heat output            | 11.20 kW               |                    |
| El input               | 4.46 kW                |                    |
| COP                    | 2.51                   |                    |
| Indoor water flow rate | 1.20 m <sup>3</sup> /h |                    |

#### EN 14511-4

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

### Average Climate

### EN 12102-1

|                           | Medium temperature |
|---------------------------|--------------------|
| Sound power level indoor  | 40 dB(A)           |
| Sound power level outdoor | 70 dB(A)           |

### EN 14825

|               | Medium temperature |
|---------------|--------------------|
| $\eta_s$      | 125 %              |
| Prated        | 10.00 kW           |
| SCOP          | 3.20               |
| Tbiv          | -7 °C              |
| TOL           | -20 °C             |
| Pdh Tj = -7°C | 8.90 kW            |
| COP Tj = -7°C | 1.79               |
| Cdh           | 0.98               |
| Pdh Tj = +2°C | 5.40 kW            |
| COP Tj = +2°C | 3.18               |
| Cdh           | 0.98               |
| Pdh Tj = +7°C | 3.90 kW            |
| COP Tj = +7°C | 4.37               |

|  |             |
|--|-------------|
| Cdh  | 0.98        |
| Pdh Tj = 12°C                              | 7.00 kW     |
| COP Tj = 12°C                              | 6.58        |
| Cdh  | 0.98        |
| Pdh Tj = Tbiv                              | 8.90 kW     |
| COP Tj = Tbiv                              | 1.79        |
| Pdh Tj = TOL                               | 6.50 kW     |
| COP Tj = TOL                               | 1.33        |
| WTOL                                       | 60 °C       |
| Poff                                       | 15 W        |
| PTO  | 15 W        |
| PSB  | 15 W        |
| PCK  | 0 W         |
| Supplementary Heater: Type of energy input | electricity |
| Supplementary Heater: PSUP                 | 1.70 kW     |
| Annual energy consumption Qhe              | 6331 kWh    |

## Domestic Hot Water (DHW)

### Average Climate

| <b>EN 16147</b>                 |            |
|---------------------------------|------------|
| Declared load profile           | L          |
| Efficiency $\eta_{DHW}$         | 103 %      |
| COP                             | 2.48       |
| Heating up time                 | 1:46 h:min |
| Standby power input             | 36.0 W     |
| Reference hot water temperature | 52.5 °C    |
| Mixed water at 40°C             | 292 l      |

## Model: PUAZ-SW100VHA(-BS) & EHST20C-VM\*C

### General Data

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

### Heating

#### EN 14511-2

|                        | Low temperature        | Medium temperature |
|------------------------|------------------------|--------------------|
| Heat output            | 11.20 kW               |                    |
| El input               | 4.46 kW                |                    |
| COP                    | 2.51                   |                    |
| Indoor water flow rate | 1.20 m <sup>3</sup> /h |                    |

#### EN 14511-4

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

### Average Climate



### EN 12102-1

|                           | Medium temperature |
|---------------------------|--------------------|
| Sound power level indoor  | 40 dB(A)           |
| Sound power level outdoor | 70 dB(A)           |

### EN 14825

|               | Medium temperature |
|---------------|--------------------|
| $\eta_s$      | 125 %              |
| Prated        | 10.00 kW           |
| SCOP          | 3.20               |
| Tbiv          | -7 °C              |
| TOL           | -20 °C             |
| Pdh Tj = -7°C | 8.90 kW            |
| COP Tj = -7°C | 1.79               |
| Cdh           | 0.98               |
| Pdh Tj = +2°C | 5.40 kW            |
| COP Tj = +2°C | 3.18               |
| Cdh           | 0.98               |
| Pdh Tj = +7°C | 3.90 kW            |
| COP Tj = +7°C | 4.37               |

|  |             |
|--|-------------|
| Cdh  | 0.98        |
| Pdh Tj = 12°C                              | 7.00 kW     |
| COP Tj = 12°C                              | 6.58        |
| Cdh  | 0.98        |
| Pdh Tj = Tbiv                              | 8.90 kW     |
| COP Tj = Tbiv                              | 1.79        |
| Pdh Tj = TOL                               | 6.50 kW     |
| COP Tj = TOL                               | 1.33        |
| WTOL                                       | 60 °C       |
| Poff                                       | 15 W        |
| PTO  | 15 W        |
| PSB  | 15 W        |
| PCK  | 0 W         |
| Supplementary Heater: Type of energy input | electricity |
| Supplementary Heater: PSUP                 | 1.70 kW     |
| Annual energy consumption Qhe              | 6331 kWh    |

## Domestic Hot Water (DHW)

### Average Climate

| <b>EN 16147</b>                 |            |
|---------------------------------|------------|
| Declared load profile           | L          |
| Efficiency $\eta_{DHW}$         | 103 %      |
| COP                             | 2.48       |
| Heating up time                 | 1:46 h:min |
| Standby power input             | 36.0 W     |
| Reference hot water temperature | 52.5 °C    |
| Mixed water at 40°C             | 292 l      |

## Model: PUAZ-SW100VHA(-BS) & EHST20C-YM\*C

### General Data

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

### Heating

#### EN 14511-2

|                        | Low temperature        | Medium temperature |
|------------------------|------------------------|--------------------|
| Heat output            | 11.20 kW               |                    |
| El input               | 4.46 kW                |                    |
| COP                    | 2.51                   |                    |
| Indoor water flow rate | 1.20 m <sup>3</sup> /h |                    |

#### EN 14511-4

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

### Average Climate

| <b>EN 12102-1</b>         |                           |
|---------------------------|---------------------------|
|                           | <b>Medium temperature</b> |
| Sound power level indoor  | 40 dB(A)                  |
| Sound power level outdoor | 70 dB(A)                  |

| <b>EN 14825</b> |                           |
|-----------------|---------------------------|
|                 | <b>Medium temperature</b> |
| $\eta_s$        | 125 %                     |
| Prated          | 10.00 kW                  |
| SCOP            | 3.20                      |
| Tbiv            | -7 °C                     |
| TOL             | -20 °C                    |
| Pdh Tj = -7°C   | 8.90 kW                   |
| COP Tj = -7°C   | 1.79                      |
| Cdh             | 0.98                      |
| Pdh Tj = +2°C   | 5.40 kW                   |
| COP Tj = +2°C   | 3.18                      |
| Cdh             | 0.98                      |
| Pdh Tj = +7°C   | 3.90 kW                   |
| COP Tj = +7°C   | 4.37                      |

|  |             |
|--|-------------|
| Cdh  | 0.98        |
| Pdh Tj = 12°C                              | 7.00 kW     |
| COP Tj = 12°C                              | 6.58        |
| Cdh  | 0.98        |
| Pdh Tj = Tbiv                              | 8.90 kW     |
| COP Tj = Tbiv                              | 1.79        |
| Pdh Tj = TOL                               | 6.50 kW     |
| COP Tj = TOL                               | 1.33        |
| WTOL                                       | 60 °C       |
| Poff                                       | 15 W        |
| PTO  | 15 W        |
| PSB  | 15 W        |
| PCK  | 0 W         |
| Supplementary Heater: Type of energy input | electricity |
| Supplementary Heater: PSUP                 | 1.70 kW     |
| Annual energy consumption Qhe              | 6331 kWh    |

## Domestic Hot Water (DHW)

### Average Climate

| <b>EN 16147</b>                 |            |
|---------------------------------|------------|
| Declared load profile           | L          |
| Efficiency $\eta_{DHW}$         | 103 %      |
| COP                             | 2.48       |
| Heating up time                 | 1:46 h:min |
| Standby power input             | 36.0 W     |
| Reference hot water temperature | 52.5 °C    |
| Mixed water at 40°C             | 292 l      |

## Model: PUAZ-SW100YHA(-BS) & EHST20C-M\*C

### General Data

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

### Heating

#### EN 14511-2

|                        | Low temperature        | Medium temperature |
|------------------------|------------------------|--------------------|
| Heat output            | 11.20 kW               |                    |
| El input               | 4.46 kW                |                    |
| COP                    | 2.51                   |                    |
| Indoor water flow rate | 1.20 m <sup>3</sup> /h |                    |

#### EN 14511-4

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

### Average Climate



### EN 12102-1

|                           | Medium temperature |
|---------------------------|--------------------|
| Sound power level indoor  | 40 dB(A)           |
| Sound power level outdoor | 70 dB(A)           |

### EN 14825

|               | Medium temperature |
|---------------|--------------------|
| $\eta_s$      | 125 %              |
| Prated        | 10.00 kW           |
| SCOP          | 3.20               |
| Tbiv          | -7 °C              |
| TOL           | -20 °C             |
| Pdh Tj = -7°C | 8.90 kW            |
| COP Tj = -7°C | 1.79               |
| Cdh           | 0.99               |
| Pdh Tj = +2°C | 5.40 kW            |
| COP Tj = +2°C | 3.21               |
| Cdh           | 0.99               |
| Pdh Tj = +7°C | 3.90 kW            |
| COP Tj = +7°C | 4.39               |

|  |             |
|--|-------------|
| Cdh  | 0.99        |
| Pdh Tj = 12°C                              | 7.00 kW     |
| COP Tj = 12°C                              | 6.58        |
| Cdh  | 0.99        |
| Pdh Tj = Tbiv                              | 8.90 kW     |
| COP Tj = Tbiv                              | 1.79        |
| Pdh Tj = TOL                               | 6.50 kW     |
| COP Tj = TOL                               | 1.40        |
| WTOL                                       | 60 °C       |
| Poff                                       | 22 W        |
| PTO  | 22 W        |
| PSB  | 22 W        |
| PCK  | 0 W         |
| Supplementary Heater: Type of energy input | electricity |
| Supplementary Heater: PSUP                 | 1.70 kW     |
| Annual energy consumption Qhe              | 6288 kWh    |

## Domestic Hot Water (DHW)

### Average Climate

| <b>EN 16147</b>                 |            |
|---------------------------------|------------|
| Declared load profile           | L          |
| Efficiency $\eta_{DHW}$         | 103 %      |
| COP                             | 2.48       |
| Heating up time                 | 1:46 h:min |
| Standby power input             | 36.0 W     |
| Reference hot water temperature | 52.5 °C    |
| Mixed water at 40°C             | 292 l      |

## Model: PUAZ-SW100YHA(-BS) & EHST20C-VM\*C

### General Data

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

### Heating

#### EN 14511-2

|                        | Low temperature        | Medium temperature |
|------------------------|------------------------|--------------------|
| Heat output            | 11.20 kW               |                    |
| El input               | 4.46 kW                |                    |
| COP                    | 2.51                   |                    |
| Indoor water flow rate | 1.20 m <sup>3</sup> /h |                    |

#### EN 14511-4

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

### Average Climate

### EN 12102-1

#### Medium temperature

|                           |          |
|---------------------------|----------|
| Sound power level indoor  | 40 dB(A) |
| Sound power level outdoor | 70 dB(A) |

### EN 14825

#### Medium temperature

|               |          |
|---------------|----------|
| $\eta_s$      | 125 %    |
| Prated        | 10.00 kW |
| SCOP          | 3.20     |
| Tbiv          | -7 °C    |
| TOL           | -20 °C   |
| Pdh Tj = -7°C | 8.90 kW  |
| COP Tj = -7°C | 1.79     |
| Cdh           | 0.99     |
| Pdh Tj = +2°C | 5.40 kW  |
| COP Tj = +2°C | 3.21     |
| Cdh           | 0.99     |
| Pdh Tj = +7°C | 3.90 kW  |
| COP Tj = +7°C | 4.39     |

|  |             |
|--|-------------|
| Cdh  | 0.99        |
| Pdh Tj = 12°C                              | 7.00 kW     |
| COP Tj = 12°C                              | 6.58        |
| Cdh  | 0.99        |
| Pdh Tj = Tbiv                              | 8.90 kW     |
| COP Tj = Tbiv                              | 1.79        |
| Pdh Tj = TOL                               | 6.50 kW     |
| COP Tj = TOL                               | 1.40        |
| WTOL                                       | 60 °C       |
| Poff                                       | 22 W        |
| PTO  | 22 W        |
| PSB  | 22 W        |
| PCK  | 0 W         |
| Supplementary Heater: Type of energy input | electricity |
| Supplementary Heater: PSUP                 | 1.70 kW     |
| Annual energy consumption Qhe              | 6288 kWh    |

## Domestic Hot Water (DHW)

### Average Climate

| <b>EN 16147</b>                 |            |
|---------------------------------|------------|
| Declared load profile           | L          |
| Efficiency $\eta_{DHW}$         | 103 %      |
| COP                             | 2.48       |
| Heating up time                 | 1:46 h:min |
| Standby power input             | 36.0 W     |
| Reference hot water temperature | 52.5 °C    |
| Mixed water at 40°C             | 292 l      |

## Model: PUAZ-SW100YHA(-BS) & EHST20C-YM\*C

### General Data

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

### Heating

#### EN 14511-2

|                        | Low temperature        | Medium temperature |
|------------------------|------------------------|--------------------|
| Heat output            | 11.20 kW               |                    |
| El input               | 4.46 kW                |                    |
| COP                    | 2.51                   |                    |
| Indoor water flow rate | 1.20 m <sup>3</sup> /h |                    |

#### EN 14511-4

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

### Average Climate



### EN 12102-1

|                           | Medium temperature |
|---------------------------|--------------------|
| Sound power level indoor  | 40 dB(A)           |
| Sound power level outdoor | 70 dB(A)           |

### EN 14825

|               | Medium temperature |
|---------------|--------------------|
| $\eta_s$      | 125 %              |
| Prated        | 10.00 kW           |
| SCOP          | 3.20               |
| Tbiv          | -7 °C              |
| TOL           | -20 °C             |
| Pdh Tj = -7°C | 8.90 kW            |
| COP Tj = -7°C | 1.79               |
| Cdh           | 0.99               |
| Pdh Tj = +2°C | 5.40 kW            |
| COP Tj = +2°C | 3.21               |
| Cdh           | 0.99               |
| Pdh Tj = +7°C | 3.90 kW            |
| COP Tj = +7°C | 4.39               |

|  |             |
|--|-------------|
| Cdh  | 0.99        |
| Pdh Tj = 12°C                              | 7.00 kW     |
| COP Tj = 12°C                              | 6.58        |
| Cdh  | 0.99        |
| Pdh Tj = Tbiv                              | 8.90 kW     |
| COP Tj = Tbiv                              | 1.79        |
| Pdh Tj = TOL                               | 6.50 kW     |
| COP Tj = TOL                               | 1.40        |
| WTOL                                       | 60 °C       |
| Poff                                       | 22 W        |
| PTO  | 22 W        |
| PSB  | 22 W        |
| PCK  | 0 W         |
| Supplementary Heater: Type of energy input | electricity |
| Supplementary Heater: PSUP                 | 1.70 kW     |
| Annual energy consumption Qhe              | 6288 kWh    |

## Domestic Hot Water (DHW)

### Average Climate

| <b>EN 16147</b>                 |            |
|---------------------------------|------------|
| Declared load profile           | L          |
| Efficiency $\eta_{DHW}$         | 103 %      |
| COP                             | 2.48       |
| Heating up time                 | 1:46 h:min |
| Standby power input             | 36.0 W     |
| Reference hot water temperature | 52.5 °C    |
| Mixed water at 40°C             | 292 l      |

## Model: PUAZ-SW100VHA(-BS) & ERSC-M\*C

### General Data

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

### Heating

#### EN 14511-2

|                        | Low temperature        | Medium temperature     |
|------------------------|------------------------|------------------------|
| Heat output            | 11.20 kW               | 11.20 kW               |
| El input               | 2.52 kW                | 4.46 kW                |
| COP                    | 4.44                   | 2.51                   |
| Indoor water flow rate | 1.93 m <sup>3</sup> /h | 1.20 m <sup>3</sup> /h |

#### EN 14511-4

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

### Average Climate

| <b>EN 12102-1</b>         |                        |                           |
|---------------------------|------------------------|---------------------------|
|                           | <b>Low temperature</b> | <b>Medium temperature</b> |
| Sound power level indoor  | 40 dB(A)               |                           |
| Sound power level outdoor | 70 dB(A)               |                           |

| <b>EN 14825</b> |                        |                           |
|-----------------|------------------------|---------------------------|
|                 | <b>Low temperature</b> | <b>Medium temperature</b> |
| $\eta_s$        | 166 %                  | 127 %                     |
| Prated          | 10.40 kW               | 10.00 kW                  |
| SCOP            | 4.23                   | 3.24                      |
| Tbiv            | -7 °C                  | -7 °C                     |
| TOL             | -20 °C                 | -20 °C                    |
| Pdh Tj = -7°C   | 9.20 kW                | 8.90 kW                   |
| COP Tj = -7°C   | 2.47                   | 1.79                      |
| Cdh             | 0.98                   | 0.98                      |
| Pdh Tj = +2°C   | 5.60 kW                | 5.40 kW                   |
| COP Tj = +2°C   | 4.24                   | 3.18                      |
| Cdh             | 0.98                   | 0.98                      |
| Pdh Tj = +7°C   | 4.30 kW                | 3.90 kW                   |
| COP Tj = +7°C   | 5.49                   | 4.37                      |

This information was downloaded from the HP KEYMARK database on 25 May 2020

|  |             |             |
|--|-------------|-------------|
| Cdh  | 0.98        | 0.98        |
| Pdh Tj = 12 °C                             | 7.30 kW     | 7.00 kW     |
| COP Tj = 12 °C                             | 7.43        | 6.58        |
| Cdh  | 0.98        | 0.98        |
| Pdh Tj = Tbiv                              | 9.20 kW     | 8.90 kW     |
| COP Tj = Tbiv                              | 2.47        | 1.79        |
| Pdh Tj = TOL                               | 6.50 kW     | 6.50 kW     |
| COP Tj = TOL                               | 1.40        | 1.33        |
| 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                 | 1.80 kW     | 1.70 kW     |
| Annual energy consumption Qhe              | 5027 kWh    | 6331 kWh    |

## Model: PUAZ-SW100VHA(-BS) & ERSC-VM\*C

### General Data

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

### Heating

#### EN 14511-2

|                        | Low temperature        | Medium temperature     |
|------------------------|------------------------|------------------------|
| Heat output            | 11.20 kW               | 11.20 kW               |
| El input               | 2.52 kW                | 4.46 kW                |
| COP                    | 4.44                   | 2.51                   |
| Indoor water flow rate | 1.93 m <sup>3</sup> /h | 1.20 m <sup>3</sup> /h |

#### EN 14511-4

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

### Average Climate

| <b>EN 12102-1</b>         |                        |                           |
|---------------------------|------------------------|---------------------------|
|                           | <b>Low temperature</b> | <b>Medium temperature</b> |
| Sound power level indoor  | 40 dB(A)               |                           |
| Sound power level outdoor | 70 dB(A)               |                           |

| <b>EN 14825</b> |                        |                           |
|-----------------|------------------------|---------------------------|
|                 | <b>Low temperature</b> | <b>Medium temperature</b> |
| $\eta_s$        | 166 %                  | 127 %                     |
| Prated          | 10.40 kW               | 10.00 kW                  |
| SCOP            | 4.23                   | 3.24                      |
| Tbiv            | -7 °C                  | -7 °C                     |
| TOL             | -20 °C                 | -20 °C                    |
| Pdh Tj = -7°C   | 9.20 kW                | 8.90 kW                   |
| COP Tj = -7°C   | 2.47                   | 1.79                      |
| Cdh             | 0.98                   | 0.98                      |
| Pdh Tj = +2°C   | 5.60 kW                | 5.40 kW                   |
| COP Tj = +2°C   | 4.24                   | 3.18                      |
| Cdh             | 0.98                   | 0.98                      |
| Pdh Tj = +7°C   | 4.30 kW                | 3.90 kW                   |
| COP Tj = +7°C   | 5.49                   | 4.37                      |



This information was downloaded from the HP KEYMARK database on 25 May 2020

|  |             |             |
|--|-------------|-------------|
| Cdh  | 0.98        | 0.98        |
| Pdh Tj = 12 °C                             | 7.30 kW     | 7.00 kW     |
| COP Tj = 12 °C                             | 7.43        | 6.58        |
| Cdh  | 0.98        | 0.98        |
| Pdh Tj = Tbiv                              | 9.20 kW     | 8.90 kW     |
| COP Tj = Tbiv                              | 2.47        | 1.79        |
| Pdh Tj = TOL                               | 6.50 kW     | 6.50 kW     |
| COP Tj = TOL                               | 1.40        | 1.33        |
| 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                 | 1.80 kW     | 1.70 kW     |
| Annual energy consumption Qhe              | 5027 kWh    | 6331 kWh    |

## Model: PUAZ-SW100YHA(-BS) & ERSC-M\*C

### General Data

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

### Heating

#### EN 14511-2

|                        | Low temperature        | Medium temperature     |
|------------------------|------------------------|------------------------|
| Heat output            | 11.20 kW               | 11.20 kW               |
| El input               | 2.52 kW                | 4.46 kW                |
| COP                    | 4.44                   | 2.51                   |
| Indoor water flow rate | 1.93 m <sup>3</sup> /h | 1.20 m <sup>3</sup> /h |

#### EN 14511-4

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

### Average Climate

| <b>EN 12102-1</b>         |                        |                           |
|---------------------------|------------------------|---------------------------|
|                           | <b>Low temperature</b> | <b>Medium temperature</b> |
| Sound power level indoor  | 40 dB(A)               |                           |
| Sound power level outdoor | 70 dB(A)               |                           |

| <b>EN 14825</b> |                        |                           |
|-----------------|------------------------|---------------------------|
|                 | <b>Low temperature</b> | <b>Medium temperature</b> |
| $\eta_s$        | 166 %                  | 127 %                     |
| Prated          | 10.40 kW               | 10.00 kW                  |
| SCOP            | 4.23                   | 3.24                      |
| Tbiv            | -7 °C                  | -7 °C                     |
| TOL             | -20 °C                 | -20 °C                    |
| Pdh Tj = -7°C   | 9.20 kW                | 8.90 kW                   |
| COP Tj = -7°C   | 2.47                   | 1.79                      |
| Cdh             | 0.99                   | 0.99                      |
| Pdh Tj = +2°C   | 5.60 kW                | 5.40 kW                   |
| COP Tj = +2°C   | 4.27                   | 3.21                      |
| Cdh             | 0.99                   | 0.99                      |
| Pdh Tj = +7°C   | 4.30 kW                | 3.90 kW                   |
| COP Tj = +7°C   | 5.54                   | 4.39                      |

This information was downloaded from the HP KEYMARK database on 25 May 2020

|  |             |             |
|--|-------------|-------------|
| Cdh  | 0.99        | 0.99        |
| Pdh Tj = 12 °C                             | 7.30 kW     | 7.00 kW     |
| COP Tj = 12 °C                             | 7.43        | 6.58        |
| Cdh  | 0.99        | 0.99        |
| Pdh Tj = Tbiv                              | 9.20 kW     | 8.90 kW     |
| COP Tj = Tbiv                              | 2.47        | 1.79        |
| Pdh Tj = TOL                               | 6.50 kW     | 6.50 kW     |
| COP Tj = TOL                               | 1.33        | 1.40        |
| 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                 | 1.80 kW     | 1.70 kW     |
| Annual energy consumption Qhe              | 4993 kWh    | 6288 kWh    |

## Model: PUAZ-SW100YHA(-BS) & ERSC-VM\*C

### General Data

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

### Heating

#### EN 14511-2

|                        | Low temperature        | Medium temperature     |
|------------------------|------------------------|------------------------|
| Heat output            | 11.20 kW               | 11.20 kW               |
| El input               | 2.52 kW                | 4.46 kW                |
| COP                    | 4.44                   | 2.51                   |
| Indoor water flow rate | 1.93 m <sup>3</sup> /h | 1.20 m <sup>3</sup> /h |

#### EN 14511-4

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

### Average Climate

| <b>EN 12102-1</b>         |                        |                           |
|---------------------------|------------------------|---------------------------|
|                           | <b>Low temperature</b> | <b>Medium temperature</b> |
| Sound power level indoor  | 40 dB(A)               |                           |
| Sound power level outdoor | 70 dB(A)               |                           |

| <b>EN 14825</b> |                        |                           |
|-----------------|------------------------|---------------------------|
|                 | <b>Low temperature</b> | <b>Medium temperature</b> |
| $\eta_s$        | 166 %                  | 127 %                     |
| Prated          | 10.40 kW               | 10.00 kW                  |
| SCOP            | 4.23                   | 3.24                      |
| Tbiv            | -7 °C                  | -7 °C                     |
| TOL             | -20 °C                 | -20 °C                    |
| Pdh Tj = -7°C   | 9.20 kW                | 8.90 kW                   |
| COP Tj = -7°C   | 2.47                   | 1.79                      |
| Cdh             | 0.99                   | 0.99                      |
| Pdh Tj = +2°C   | 5.60 kW                | 5.40 kW                   |
| COP Tj = +2°C   | 4.27                   | 3.21                      |
| Cdh             | 0.99                   | 0.99                      |
| Pdh Tj = +7°C   | 4.30 kW                | 3.90 kW                   |
| COP Tj = +7°C   | 5.54                   | 4.39                      |

This information was downloaded from the HP KEYMARK database on 25 May 2020

|  |             |             |
|--|-------------|-------------|
| Cdh  | 0.99        | 0.99        |
| Pdh Tj = 12 °C                             | 7.30 kW     | 7.00 kW     |
| COP Tj = 12 °C                             | 7.43        | 6.58        |
| Cdh  | 0.99        | 0.99        |
| Pdh Tj = Tbiv                              | 9.20 kW     | 8.90 kW     |
| COP Tj = Tbiv                              | 2.47        | 1.79        |
| Pdh Tj = TOL                               | 6.50 kW     | 6.50 kW     |
| COP Tj = TOL                               | 1.33        | 1.40        |
| 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                 | 1.80 kW     | 1.70 kW     |
| Annual energy consumption Qhe              | 4993 kWh    | 6288 kWh    |

## Model: PUAZ-SW100VHA(-BS) & ERST20C-M\*C

### General Data

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

### Heating

#### EN 14511-2

|                        | Low temperature        | Medium temperature |
|------------------------|------------------------|--------------------|
| Heat output            | 11.20 kW               |                    |
| El input               | 4.46 kW                |                    |
| COP                    | 2.51                   |                    |
| Indoor water flow rate | 1.20 m <sup>3</sup> /h |                    |

#### EN 14511-4

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

### Average Climate



### EN 12102-1

|                           | Medium temperature |
|---------------------------|--------------------|
| Sound power level indoor  | 40 dB(A)           |
| Sound power level outdoor | 70 dB(A)           |

### EN 14825

|               | Medium temperature |
|---------------|--------------------|
| $\eta_s$      | 127 %              |
| Prated        | 10.00 kW           |
| SCOP          | 3.24               |
| Tbiv          | -7 °C              |
| TOL           | -20 °C             |
| Pdh Tj = -7°C | 8.90 kW            |
| COP Tj = -7°C | 1.79               |
| Cdh           | 0.98               |
| Pdh Tj = +2°C | 5.40 kW            |
| COP Tj = +2°C | 3.18               |
| Cdh           | 0.98               |
| Pdh Tj = +7°C | 3.90 kW            |
| COP Tj = +7°C | 4.37               |

|  |             |
|--|-------------|
| Cdh  | 0.98        |
| Pdh Tj = 12°C                              | 7.00 kW     |
| COP Tj = 12°C                              | 6.58        |
| Cdh  | 0.98        |
| Pdh Tj = Tbiv                              | 8.90 kW     |
| COP Tj = Tbiv                              | 1.79        |
| Pdh Tj = TOL                               | 6.50 kW     |
| COP Tj = TOL                               | 1.33        |
| WTOL                                       | 60 °C       |
| Poff                                       | 15 W        |
| PTO  | 15 W        |
| PSB  | 15 W        |
| PCK  | 0 W         |
| Supplementary Heater: Type of energy input | electricity |
| Supplementary Heater: PSUP                 | 1.70 kW     |
| Annual energy consumption Qhe              | 6331 kWh    |

## Domestic Hot Water (DHW)

### Average Climate

| <b>EN 16147</b>                 |            |
|---------------------------------|------------|
| Declared load profile           | L          |
| Efficiency $\eta_{DHW}$         | 103 %      |
| COP                             | 2.48       |
| Heating up time                 | 1:46 h:min |
| Standby power input             | 36.0 W     |
| Reference hot water temperature | 52.5 °C    |
| Mixed water at 40°C             | 292 l      |

## Model: PUAZ-SW100VHA(-BS) & ERST20C-VM\*C

### General Data

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

### Heating

#### EN 14511-2

|                        | Low temperature        | Medium temperature |
|------------------------|------------------------|--------------------|
| Heat output            | 11.20 kW               |                    |
| El input               | 4.46 kW                |                    |
| COP                    | 2.51                   |                    |
| Indoor water flow rate | 1.20 m <sup>3</sup> /h |                    |

#### EN 14511-4

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

### Average Climate

| <b>EN 12102-1</b>         |                           |
|---------------------------|---------------------------|
|                           | <b>Medium temperature</b> |
| Sound power level indoor  | 40 dB(A)                  |
| Sound power level outdoor | 70 dB(A)                  |

| <b>EN 14825</b> |                           |
|-----------------|---------------------------|
|                 | <b>Medium temperature</b> |
| $\eta_s$        | 127 %                     |
| Prated          | 10.00 kW                  |
| SCOP            | 3.24                      |
| Tbiv            | -7 °C                     |
| TOL             | -20 °C                    |
| Pdh Tj = -7°C   | 8.90 kW                   |
| COP Tj = -7°C   | 1.79                      |
| Cdh             | 0.98                      |
| Pdh Tj = +2°C   | 5.40 kW                   |
| COP Tj = +2°C   | 3.18                      |
| Cdh             | 0.98                      |
| Pdh Tj = +7°C   | 3.90 kW                   |
| COP Tj = +7°C   | 4.37                      |

|  |             |
|--|-------------|
| Cdh  | 0.98        |
| Pdh Tj = 12°C                              | 7.00 kW     |
| COP Tj = 12°C                              | 6.58        |
| Cdh  | 0.98        |
| Pdh Tj = Tbiv                              | 8.90 kW     |
| COP Tj = Tbiv                              | 1.79        |
| Pdh Tj = TOL                               | 6.50 kW     |
| COP Tj = TOL                               | 1.33        |
| WTOL                                       | 60 °C       |
| Poff                                       | 15 W        |
| PTO  | 15 W        |
| PSB  | 15 W        |
| PCK  | 0 W         |
| Supplementary Heater: Type of energy input | electricity |
| Supplementary Heater: PSUP                 | 1.70 kW     |
| Annual energy consumption Qhe              | 6331 kWh    |

## Domestic Hot Water (DHW)

### Average Climate

| <b>EN 16147</b>                 |            |
|---------------------------------|------------|
| Declared load profile           | L          |
| Efficiency $\eta_{DHW}$         | 103 %      |
| COP                             | 2.48       |
| Heating up time                 | 1:46 h:min |
| Standby power input             | 36.0 W     |
| Reference hot water temperature | 52.5 °C    |
| Mixed water at 40°C             | 292 l      |

## Model: PUAZ-SW100YHA(-BS) & ERST20C-M\*C

### General Data

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

### Heating

#### EN 14511-2

|                        | Low temperature        | Medium temperature |
|------------------------|------------------------|--------------------|
| Heat output            | 11.20 kW               |                    |
| El input               | 4.46 kW                |                    |
| COP                    | 2.51                   |                    |
| Indoor water flow rate | 1.20 m <sup>3</sup> /h |                    |

#### EN 14511-4

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

### Average Climate



### EN 12102-1

#### Medium temperature

|                           |          |
|---------------------------|----------|
| Sound power level indoor  | 40 dB(A) |
| Sound power level outdoor | 70 dB(A) |

### EN 14825

#### Medium temperature

|               |          |
|---------------|----------|
| $\eta_s$      | 127 %    |
| Prated        | 10.00 kW |
| SCOP          | 3.24     |
| Tbiv          | -7 °C    |
| TOL           | -20 °C   |
| Pdh Tj = -7°C | 8.90 kW  |
| COP Tj = -7°C | 1.79     |
| Cdh           | 0.99     |
| Pdh Tj = +2°C | 5.40 kW  |
| COP Tj = +2°C | 3.21     |
| Cdh           | 0.99     |
| Pdh Tj = +7°C | 3.90 kW  |
| COP Tj = +7°C | 4.39     |

|  |             |
|--|-------------|
| Cdh  | 0.99        |
| Pdh Tj = 12°C                              | 7.00 kW     |
| COP Tj = 12°C                              | 6.58        |
| Cdh  | 0.99        |
| Pdh Tj = Tbiv                              | 8.90 kW     |
| COP Tj = Tbiv                              | 1.79        |
| Pdh Tj = TOL                               | 6.50 kW     |
| COP Tj = TOL                               | 1.40        |
| WTOL                                       | 60 °C       |
| Poff                                       | 22 W        |
| PTO  | 22 W        |
| PSB  | 22 W        |
| PCK  | 0 W         |
| Supplementary Heater: Type of energy input | electricity |
| Supplementary Heater: PSUP                 | 1.70 kW     |
| Annual energy consumption Qhe              | 6288 kWh    |

## Domestic Hot Water (DHW)

### Average Climate

| <b>EN 16147</b>                 |            |
|---------------------------------|------------|
| Declared load profile           | L          |
| Efficiency $\eta_{DHW}$         | 103 %      |
| COP                             | 2.48       |
| Heating up time                 | 1:46 h:min |
| Standby power input             | 36.0 W     |
| Reference hot water temperature | 52.5 °C    |
| Mixed water at 40°C             | 292 l      |

## Model: PUAZ-SW100YHA(-BS) & ERST20C-VM\*C

### General Data

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

### Heating

#### EN 14511-2

|                        | Low temperature        | Medium temperature |
|------------------------|------------------------|--------------------|
| Heat output            | 11.20 kW               |                    |
| El input               | 4.46 kW                |                    |
| COP                    | 2.51                   |                    |
| Indoor water flow rate | 1.20 m <sup>3</sup> /h |                    |

#### EN 14511-4

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

### Average Climate

### EN 12102-1

#### Medium temperature

|                           |          |
|---------------------------|----------|
| Sound power level indoor  | 40 dB(A) |
| Sound power level outdoor | 70 dB(A) |

### EN 14825

#### Medium temperature

|               |          |
|---------------|----------|
| $\eta_s$      | 127 %    |
| Prated        | 10.00 kW |
| SCOP          | 3.24     |
| Tbiv          | -7 °C    |
| TOL           | -20 °C   |
| Pdh Tj = -7°C | 8.90 kW  |
| COP Tj = -7°C | 1.79     |
| Cdh           | 0.99     |
| Pdh Tj = +2°C | 5.40 kW  |
| COP Tj = +2°C | 3.21     |
| Cdh           | 0.99     |
| Pdh Tj = +7°C | 3.90 kW  |
| COP Tj = +7°C | 4.39     |

|  |             |
|--|-------------|
| Cdh  | 0.99        |
| Pdh Tj = 12°C                              | 7.00 kW     |
| COP Tj = 12°C                              | 6.58        |
| Cdh  | 0.99        |
| Pdh Tj = Tbiv                              | 8.90 kW     |
| COP Tj = Tbiv                              | 1.79        |
| Pdh Tj = TOL                               | 6.50 kW     |
| COP Tj = TOL                               | 1.40        |
| WTOL                                       | 60 °C       |
| Poff                                       | 22 W        |
| PTO  | 22 W        |
| PSB  | 22 W        |
| PCK  | 0 W         |
| Supplementary Heater: Type of energy input | electricity |
| Supplementary Heater: PSUP                 | 1.70 kW     |
| Annual energy consumption Qhe              | 6288 kWh    |

## Domestic Hot Water (DHW)

### Average Climate

| <b>EN 16147</b>                 |            |
|---------------------------------|------------|
| Declared load profile           | L          |
| Efficiency $\eta_{DHW}$         | 103 %      |
| COP                             | 2.48       |
| Heating up time                 | 1:46 h:min |
| Standby power input             | 36.0 W     |
| Reference hot water temperature | 52.5 °C    |
| Mixed water at 40°C             | 292 l      |