

**Login** 

| Summary of          | Ecodan Power Inverter 10  | Reg. No. | 037-0049-20    |
|---------------------|---|----------|----------------|
| Certificate Holder  |   |          |                |
| Name                | Mitsubishi Electric Air Conditioning Systems Europe LTD                           |          |                |
| Address             | Nettlehill Road, Houston Industrial Estate  | Zip      | EH54 5EQ       |
| City                | Livingston  | Country  | United Kingdom |
| Certification Body  | SZU - Strojirensky zkusebni ustav (Engineering Test Institute, Public Enterprise) |          |                |
| Subtype title       | Ecodan Power Inverter 10  |          |                |
| Heat Pump Type      | Outdoor Air/Water   |          |                |
| Refrigerant         | R410A   |          |                |
| Mass of Refrigerant | 4.6 kg  |          |                |
| Certification Date  | 09.04.2020  |          |                |
| Testing basis       | HP Keymark scheme rules rev. no. 7  |          |                |

# Model: PUHZ-SW100VHA(-BS) + EHSC-\*M\*C

| Configure model                     |                                |  |
|-------------------------------------|--------------------------------|--|
| Model name                          | PUHZ-SW100VHA(-BS) + EHSC-*M*C |  |
| Application                         | Heating (medium temp)          |  |
| Units                               | Indoor + Outdoor               |  |
| Climate Zone                        | n/a                            |  |
| Reversibility                       | No                             |  |
| Cooling mode application (optional) | n/a                            |  |

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

### Heating

| EN 14511-2  |                 |                    |
|-------------|-----------------|--------------------|
|             | Low temperature | Medium temperature |
| Heat output | 11.2 kW         | 11.2 kW            |
| El input    | 2.52 kW         | 4.46 kW            |
| СОР         | 4.44            | 2.51               |

| EN 14511-4                                 |        |
|--|--------|
| Shutting off the heat transfer medium flow | passed |
| Complete power supply failure              | passed |
| Defrost test                               | passed |
| Starting and operating test                | passed |



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

|                 | EN 14825  |  |  |
|-----------------|---|--|--|
| Low temperature | Medium temperature  |  |  |
| 164 %           | 125 %   |  |  |
| 10.4 kW         | 10 kW   |  |  |
| 4.16            | 3.2   |  |  |
| -7 °C           | -7 °C   |  |  |
| -20 °C          | -20 °C  |  |  |
| 9.2 kW          | 8.9 kW  |  |  |
| 2.47            | 1.79  |  |  |
| 0.996           | 0.98  |  |  |
| 5.6 kW          | 5.4 kW  |  |  |
| 4.19            | 3.16  |  |  |
| 0.989           | 0.98  |  |  |
| 4.3 kW          | 3.9 kW  |  |  |
| 5.51            | 4.37  |  |  |
| 0.98            | 0.98  |  |  |
|                 | 164 %  10.4 kW  4.16  -7 °C  -20 °C  9.2 kW  2.47  0.996  5.6 kW  4.19  0.989  4.3 kW  5.51 |  |  |



| Pdh Tj = 12°C                                       | 7.3 kW      | 7 kW        |
|---|-------------|-------------|
| COP Tj = 12°C                                       | 7.43        | 6.58        |
| Cdh Tj = +12 °C                                     | 0.985       | 0.98        |
| Pdh Tj = Tbiv                                       | 9.2 kW      | 8.9 kW      |
| COP Tj = Tbiv                                       | 2.47        | 1.79        |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 8.58 kW     | 8.35 kW     |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.22        | 1.68        |
| WTOL  | 60 °C       | 60 °C       |
| Poff  | 15 W        | 15 W        |
| РТО   | 15 W        | 15 W        |
| PSB   | 15 W        | 15 W        |
| PCK   | o w         | 0 W         |
| Supplementary Heater: Type of energy input          | Electricity | Electricity |
| Supplementary Heater: PSUP                          | 1.82 kW     | 1.65 kW     |
| Annual energy consumption Qhe                       | 5160 kWh    | 6451 kWh    |



# Model: PUHZ-SW100VHA(-BS) + EHSC-M\*C

| Configure model                          |                       |  |
|--|-----------------------|--|
| Model name PUHZ-SW100VHA(-BS) + EHSC-M*C |                       |  |
| Application                              | Heating (medium temp) |  |
| Units                                    | Indoor + Outdoor      |  |
| Climate Zone                             | n/a                   |  |
| Reversibility                            | No                    |  |
| Cooling mode application (optional)      | n/a                   |  |

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

### Heating

| EN 14511-2  |                 |                    |
|-------------|-----------------|--------------------|
|             | Low temperature | Medium temperature |
| Heat output | 11.2 kW         | 11.2 kW            |
| El input    | 2.52 kW         | 4.46 kW            |
| СОР         | 4.44            | 2.51               |

| EN 14511-4                                 |        |
|--|--------|
|  |        |
| Shutting off the heat transfer medium flow | passed |
| Complete power supply failure              | passed |
|  |        |
| Defrost test                               | passed |
| Starting and operating test                | passed |



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

| EN 14825       |                 |                    |
|----------------|-----------------|--------------------|
|                | Low temperature | Medium temperature |
| $\eta_{s}$     | 164 %           | 125 %              |
| Prated         | 10.4 kW         | 10 kW              |
| SCOP           | 4.16            | 3.2                |
| Tbiv           | -7 °C           | -7 °C              |
| TOL            | -20 °C          | -20 °C             |
| Pdh Tj = -7°C  | 9.2 kW          | 8.9 kW             |
| COP Tj = -7°C  | 2.47            | 1.79               |
| Cdh Tj = -7 °C | 0.996           | 0.98               |
| Pdh Tj = +2°C  | 5.6 kW          | 5.4 kW             |
| COP Tj = +2°C  | 4.19            | 3.16               |
| Cdh Tj = +2 °C | 0.989           | 0.98               |
| Pdh Tj = +7°C  | 4.3 kW          | 3.9 kW             |
| COP Tj = +7°C  | 5.51            | 4.37               |
| Cdh Tj = +7 °C | 0.98            | 0.98               |



| Pdh Tj = 12°C                                       | 7.3 kW      | 7 kW        |
|---|-------------|-------------|
| COP Tj = 12°C                                       | 7.43        | 6.58        |
| Cdh Tj = +12 °C                                     | 0.985       | 0.98        |
| Pdh Tj = Tbiv                                       | 9.2 kW      | 8.9 kW      |
| COP Tj = Tbiv                                       | 2.47        | 1.79        |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 8.58 kW     | 8.35 kW     |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.22        | 1.68        |
| WTOL  | 60 °C       | 60 °C       |
| Poff  | 15 W        | 15 W        |
| РТО   | 15 W        | 15 W        |
| PSB   | 15 W        | 15 W        |
| PCK   | o w         | o w         |
| Supplementary Heater: Type of energy input          | Electricity | Electricity |
| Supplementary Heater: PSUP                          | 1.82 kW     | 1.65 kW     |
| Annual energy consumption Qhe                       | 5160 kWh    | 6451 kWh    |



# Model: PUHZ-SW100VHA(-BS) + EHST20C-\*M\*C

| Configure model                                |                  |  |
|--|------------------|--|
| Model name   PUHZ-SW100VHA(-BS) + EHST20C-*M*C |                  |  |
| Application Heating + DHW                      |                  |  |
| Units  | Indoor + Outdoor |  |
| Climate Zone                                   | n/a              |  |
| Reversibility No                               |                  |  |
| Cooling mode application (optional) n/a        |                  |  |

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

### Heating

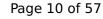
| EN 14511-2  |                 |                    |
|-------------|-----------------|--------------------|
|             | Low temperature | Medium temperature |
| Heat output | 11.2 kW         |                    |
| El input    | 4.46 kW         |                    |
| СОР         | 2.51            |                    |

| EN 14511-4                                 |        |
|--|--------|
| Shutting off the heat transfer medium flow | passed |
| Complete power supply failure              | passed |
| Defrost test                               | passed |
| Starting and operating test                | passed |



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

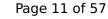
| EN 14825       |                 |                    |
|----------------|-----------------|--------------------|
|                | Low temperature | Medium temperature |
| $\eta_{s}$     | 125 %           |                    |
| Prated         | 10 kW           | _                  |
| SCOP           | 3.2             |                    |
| Tbiv           | -7 °C           | _                  |
| TOL            | -20 °C          |                    |
| Pdh Tj = -7°C  | 8.9 kW          |                    |
| COP Tj = -7°C  | 1.79            |                    |
| Cdh Tj = -7 °C | 0.98            |                    |
| Pdh Tj = +2°C  | 5.4 kW          |                    |
| COP Tj = +2°C  | 3.16            |                    |
| Cdh Tj = +2 °C | 0.98            |                    |
| Pdh Tj = +7°C  | 3.9 kW          |                    |
| COP Tj = +7°C  | 4.37            |                    |
| Cdh Tj = +7 °C | 0.98            |                    |





| Pdh Tj = 12°C                                       | 7 kW        |
|---|-------------|
| COP Tj = 12°C                                       | 6.58        |
| Cdh Tj = +12 °C                                     | 0.98        |
| Pdh Tj = Tbiv                                       | 8.9 kW      |
| COP Tj = Tbiv                                       | 1.79        |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 8.35 kW     |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 1.68        |
| WTOL  | 60 °C       |
| Poff  | 15 W        |
| РТО   | 15 W        |
| PSB   | 15 W        |
| PCK   | o w         |
| Supplementary Heater: Type of energy input          | Electricity |
| Supplementary Heater: PSUP                          | 1.65 kW     |
| Annual energy consumption Qhe                       | 6451 kWh    |
|   |             |

### Domestic Hot Water (DHW)





| EN 16147                        |             |
|---------------------------------|-------------|
| Declared load profile           | L           |
| Efficiency ηDHW                 | 103 %       |
| СОР                             | 2.48        |
| Heating up time                 | 01:46 h:min |
| Standby power input             | 36 W        |
| Reference hot water temperature | 52.5 °C     |
| Mixed water at 40°C             | 292 I       |



# Model: PUHZ-SW100VHA(-BS) + EHST20C-M\*C

| Configure model                             |                  |  |
|---|------------------|--|
| Model name PUHZ-SW100VHA(-BS) + EHST20C-M*C |                  |  |
| Application Heating + DHW                   |                  |  |
| Units                                       | Indoor + Outdoor |  |
| Climate Zone n/a                            |                  |  |
| Reversibility No                            |                  |  |
| Cooling mode application (optional) n/a     |                  |  |

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

### Heating

| EN 14511-2  |                 |                    |
|-------------|-----------------|--------------------|
|             | Low temperature | Medium temperature |
| Heat output | 11.2 kW         |                    |
| El input    | 4.46 kW         |                    |
| СОР         | 2.51            |                    |

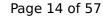
| EN 14511-4                                 |        |
|--|--------|
| Shutting off the heat transfer medium flow | passed |
|  |        |
| Complete power supply failure              | passed |
| Defrost test                               | passed |
| Starting and operating test                | passed |



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

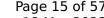
| EN 14825       |                 |                    |
|----------------|-----------------|--------------------|
|                | Low temperature | Medium temperature |
| $\eta_{s}$     | 125 %           |                    |
| Prated         | 10 kW           |                    |
| SCOP           | 3.2             |                    |
| Tbiv           | -7 °C           |                    |
| TOL            | -20 °C          |                    |
| Pdh Tj = -7°C  | 8.9 kW          |                    |
| COP Tj = -7°C  | 1.79            |                    |
| Cdh Tj = -7 °C | 0.98            |                    |
| Pdh Tj = +2°C  | 5.4 kW          |                    |
| COP Tj = +2°C  | 3.16            |                    |
| Cdh Tj = +2 °C | 0.98            |                    |
| Pdh Tj = +7°C  | 3.9 kW          |                    |
| COP Tj = +7°C  | 4.37            |                    |
| Cdh Tj = +7 °C | 0.98            |                    |





|   | <u> </u>    |
|---|-------------|
| Pdh Tj = 12°C                                       | 7 kW        |
| COP Tj = 12°C                                       | 6.58        |
| Cdh Tj = +12 °C                                     | 0.98        |
| Pdh Tj = Tbiv                                       | 8.9 kW      |
| COP Tj = Tbiv                                       | 1.79        |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 8.35 kW     |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 1.68        |
| WTOL  | 60 °C       |
| Poff  | 15 W        |
| РТО   | 15 W        |
| PSB   | 15 W        |
| PCK   | 0 W         |
| Supplementary Heater: Type of energy input          | Electricity |
| Supplementary Heater: PSUP                          | 1.65 kW     |
| Annual energy consumption Qhe                       | 6451 kWh    |

### Domestic Hot Water (DHW)





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| EN 16147                        |             |  |
|---------------------------------|-------------|--|
| Declared load profile           | L           |  |
| Efficiency ηDHW                 | 103 %       |  |
| СОР                             | 2.48        |  |
| Heating up time                 | 01:46 h:min |  |
| Standby power input             | 36 W        |  |
| Reference hot water temperature | 52.5 °C     |  |
| Mixed water at 40°C             | 292 I       |  |

# Model: PUHZ-SW100VHA(-BS) + ERSC-\*M\*C

| Configure model                           |  |  |
|---|--|--|
| Model name PUHZ-SW100VHA(-BS) + ERSC-*M*C |  |  |
| Application Heating (medium temp)         |  |  |
| Units Indoor + Outdoor                    |  |  |
| Climate Zone n/a                          |  |  |
| Reversibility Yes                         |  |  |
| Cooling mode application (optional) n/a   |  |  |

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

### Heating

| EN 14511-2                         |         |         |  |
|------------------------------------|---------|---------|--|
| Low temperature Medium temperature |         |         |  |
| Heat output                        | 11.2 kW | 11.2 kW |  |
| El input                           | 2.52 kW | 4.46 kW |  |
| СОР                                | 4.44    | 2.51    |  |

| EN 14511-4                                 |        |
|--|--------|
| Shutting off the heat transfer medium flow | passed |
| Complete power supply failure              | passed |
| Defrost test                               | passed |
| Starting and operating test                | passed |



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

| EN 14825                |                 |                    |
|-------------------------|-----------------|--------------------|
|                         | Low temperature | Medium temperature |
| $\eta_{S}$              | 166 %           | 127 %              |
| Prated                  | 10.4 kW         | 10 kW              |
| SCOP                    | 4.23            | 3.24               |
| Tbiv                    | -7 °C           | -7 °C              |
| TOL                     | -20 °C          | -20 °C             |
| Pdh Tj = -7°C           | 9.2 kW          | 8.9 kW             |
| COP Tj = -7°C           | 2.47            | 1.79               |
| Cdh Tj = -7 °C          | 0.996           | 0.98               |
| Pdh Tj = $+2$ °C        | 5.6 kW          | 5.4 kW             |
| $COP Tj = +2^{\circ}C$  | 4.24            | 3.18               |
| Cdh Tj = +2 °C          | 0.989           | 0.98               |
| Pdh Tj = $+7^{\circ}$ C | 4.3 kW          | 3.9 kW             |
| COP Tj = +7°C           | 5.49            | 4.37               |
| Cdh Tj = +7 °C          | 0.98            | 0.98               |



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#### This information was generated by the HP KEYMARK database on 18 Mar 2022

| Pdh Tj = 12°C                                       | 7.3 kW      | 7 kW        |
|---|-------------|-------------|
| COP Tj = 12°C                                       | 7.43        | 6.58        |
| Cdh Tj = +12 °C                                     | 0.985       | 0.98        |
| Pdh Tj = Tbiv                                       | 9.2 kW      | 8.9 kW      |
| COP Tj = Tbiv                                       | 2.47        | 1.79        |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 8.58 kW     | 8.35 kW     |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.22        | 1.68        |
| WTOL  | 60 °C       | 60 °C       |
| Poff  | 15 W        | 15 W        |
| РТО   | 15 W        | 15 W        |
| PSB   | 15 W        | 15 W        |
| PCK   | o w         | o w         |
| Supplementary Heater: Type of energy input          | Electricity | Electricity |
| Supplementary Heater: PSUP                          | 1.82 kW     | 1.65 kW     |
| Annual energy consumption Qhe                       | 5078 kWh    | 6375 kWh    |



# Model: PUHZ-SW100VHA(-BS) + ERSC-M\*C

| Configure model                     |                               |  |
|-------------------------------------|-------------------------------|--|
| Model name                          | PUHZ-SW100VHA(-BS) + ERSC-M*C |  |
| Application                         | Heating (medium temp)         |  |
| Units                               | Indoor + Outdoor              |  |
| Climate Zone                        | n/a                           |  |
| Reversibility                       | Yes                           |  |
| Cooling mode application (optional) | n/a                           |  |

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

### Heating

| EN 14511-2                         |         |         |
|------------------------------------|---------|---------|
| Low temperature Medium temperature |         |         |
| Heat output                        | 11.2 kW | 11.2 kW |
| El input                           | 2.52 kW | 4.46 kW |
| СОР                                | 4.44    | 2.51    |

| EN 14511-4                                 |        |
|--|--------|
| Shutting off the heat transfer medium flow | passed |
| Complete power supply failure              | passed |
| Defrost test                               | passed |
| Starting and operating test                | passed |



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

| EN 14825       |                 |                    |
|----------------|-----------------|--------------------|
|                | Low temperature | Medium temperature |
| $\eta_{s}$     | 166 %           | 127 %              |
| Prated         | 10.4 kW         | 10 kW              |
| SCOP           | 4.23            | 3.24               |
| Tbiv           | -7 °C           | -7 °C              |
| TOL            | -20 °C          | -20 °C             |
| Pdh Tj = -7°C  | 9.2 kW          | 8.9 kW             |
| COP Tj = -7°C  | 2.47            | 1.79               |
| Cdh Tj = -7 °C | 0.996           | 0.98               |
| Pdh Tj = +2°C  | 5.6 kW          | 5.4 kW             |
| COP Tj = +2°C  | 4.24            | 3.18               |
| Cdh Tj = +2 °C | 0.989           | 0.98               |
| Pdh Tj = +7°C  | 4.3 kW          | 3.9 kW             |
| COP Tj = +7°C  | 5.49            | 4.37               |
| Cdh Tj = +7 °C | 0.98            | 0.98               |



| Pdh Tj = 12°C                                       | 7.3 kW      | 7 kW        |
|---|-------------|-------------|
| COP Tj = 12°C                                       | 7.43        | 6.58        |
| Cdh Tj = +12 °C                                     | 0.985       | 0.98        |
| Pdh Tj = Tbiv                                       | 9.2 kW      | 8.9 kW      |
| COP Tj = Tbiv                                       | 2.47        | 1.79        |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 8.58 kW     | 8.35 kW     |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.22        | 1.68        |
| WTOL  | 60 °C       | 60 °C       |
| Poff  | 15 W        | 15 W        |
| PTO   | 15 W        | 15 W        |
| PSB   | 15 W        | 15 W        |
| PCK   | 0 W         | o w         |
| Supplementary Heater: Type of energy input          | Electricity | Electricity |
| Supplementary Heater: PSUP                          | 1.82 kW     | 1.65 kW     |
| Annual energy consumption Qhe                       | 5078 kWh    | 6375 kWh    |

# Model: PUHZ-SW100VHA(-BS) + ERST20C-\*M\*C

| Configure model                     |                                   |  |
|-------------------------------------|-----------------------------------|--|
| Model name                          | PUHZ-SW100VHA(-BS) + ERST20C-*M*C |  |
| Application                         | Heating + DHW                     |  |
| Units                               | Indoor + Outdoor                  |  |
| Climate Zone                        | n/a                               |  |
| Reversibility                       | Yes                               |  |
| Cooling mode application (optional) | n/a                               |  |

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

### Heating

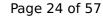
| EN 14511-2  |                 |                    |
|-------------|-----------------|--------------------|
|             | Low temperature | Medium temperature |
| Heat output | 11.2 kW         |                    |
| El input    | 4.46 kW         |                    |
| СОР         | 2.51            |                    |

| EN 14511-4                                 |        |
|--|--------|
| Shutting off the heat transfer medium flow | passed |
| Complete power supply failure              | passed |
| Defrost test                               | passed |
| Starting and operating test                | passed |



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

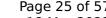
|                | EN 14825        |                    |
|----------------|-----------------|--------------------|
|                | Low temperature | Medium temperature |
| $\eta_{s}$     | 127 %           |                    |
| Prated         | 10 kW           |                    |
| SCOP           | 3.24            |                    |
| Tbiv           | -7 °C           |                    |
| TOL            | -20 °C          |                    |
| Pdh Tj = -7°C  | 8.9 kW          |                    |
| COP Tj = -7°C  | 1.79            |                    |
| Cdh Tj = -7 °C | 0.98            |                    |
| Pdh Tj = +2°C  | 5.4 kW          |                    |
| COP Tj = +2°C  | 3.18            |                    |
| Cdh Tj = +2 °C | 0.98            |                    |
| Pdh Tj = +7°C  | 3.9 kW          |                    |
| COP Tj = +7°C  | 4.37            |                    |
| Cdh Tj = +7 °C | 0.98            |                    |





| Pdh Tj = 12°C                                       | 7 kW        |
|---|-------------|
| COP Tj = 12°C                                       | 6.58        |
| Cdh Tj = +12 °C                                     | 0.98        |
| Pdh Tj = Tbiv                                       | 8.9 kW      |
| COP Tj = Tbiv                                       | 1.79        |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 8.35 kW     |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 1.68        |
| WTOL  | 60 °C       |
| Poff  | 15 W        |
| РТО   | 15 W        |
| PSB   | 15 W        |
| РСК   | o w         |
| Supplementary Heater: Type of energy input          | Electricity |
| Supplementary Heater: PSUP                          | 1.65 kW     |
| Annual energy consumption Qhe                       | 6375 kWh    |

### Domestic Hot Water (DHW)





# $$\operatorname{\textit{Page}}\xspace$ 25 of 57 This information was generated by the HP KEYMARK database on 18 Mar 2022

| EN 16147                        |             |
|---------------------------------|-------------|
| Declared load profile           | L           |
| Efficiency ηDHW                 | 103 %       |
| СОР                             | 2.48        |
| Heating up time                 | 01:46 h:min |
| Standby power input             | 36 W        |
| Reference hot water temperature | 52.5 °C     |
| Mixed water at 40°C             | 292 I       |



# Model: PUHZ-SW100VHA(-BS) + ERST20C-M\*C

|                                     | Configure model                  |
|-------------------------------------|----------------------------------|
| Model name                          | PUHZ-SW100VHA(-BS) + ERST20C-M*C |
| Application                         | Heating + DHW                    |
| Units                               | Indoor + Outdoor                 |
| Climate Zone                        | n/a                              |
| Reversibility                       | Yes                              |
| Cooling mode application (optional) | n/a                              |

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

### Heating

|             | EN 14511-2      |                    |
|-------------|-----------------|--------------------|
|             | Low temperature | Medium temperature |
| Heat output | 11.2 kW         |                    |
| El input    | 4.46 kW         |                    |
| СОР         | 2.51            |                    |

| EN 14511-4                                 |        |
|--|--------|
| Shutting off the heat transfer medium flow | passed |
| Complete power supply failure              | passed |
| Defrost test                               | passed |
| Starting and operating test                | passed |



 $$\operatorname{\textit{Page}}\xspace$  27 of 57 This information was generated by the HP KEYMARK database on 18 Mar 2022

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

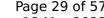
|                | EN 14825        |                    |
|----------------|-----------------|--------------------|
|                | Low temperature | Medium temperature |
| $\eta_{s}$     | 127 %           |                    |
| Prated         | 10 kW           |                    |
| SCOP           | 3.24            |                    |
| Tbiv           | -7 °C           |                    |
| TOL            | -20 °C          |                    |
| Pdh Tj = -7°C  | 8.9 kW          |                    |
| COP Tj = -7°C  | 1.79            |                    |
| Cdh Tj = -7 °C | 0.98            |                    |
| Pdh Tj = +2°C  | 5.4 kW          |                    |
| COP Tj = +2°C  | 3.18            |                    |
| Cdh Tj = +2 °C | 0.98            |                    |
| Pdh Tj = +7°C  | 3.9 kW          |                    |
| COP Tj = +7°C  | 4.37            |                    |
| Cdh Tj = +7 °C | 0.98            |                    |





|   | <del> </del> |
|---|--------------|
| Pdh Tj = 12°C                                       | 7 kW         |
| COP Tj = 12°C                                       | 6.58         |
| Cdh Tj = +12 °C                                     | 0.98         |
| Pdh Tj = Tbiv                                       | 8.9 kW       |
| COP Tj = Tbiv                                       | 1.79         |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 8.35 kW      |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 1.68         |
| WTOL  | 60 °C        |
| Poff  | 15 W         |
| РТО   | 15 W         |
| PSB   | 15 W         |
| PCK   | o w          |
| Supplementary Heater: Type of energy input          | Electricity  |
| Supplementary Heater: PSUP                          | 1.65 kW      |
| Annual energy consumption Qhe                       | 6375 kWh     |

### Domestic Hot Water (DHW)





# $$\operatorname{\textit{Page}}\xspace$ 29 of 57 This information was generated by the HP KEYMARK database on 18 Mar 2022

| EN 16147                        |             |  |
|---------------------------------|-------------|--|
| Declared load profile           | L           |  |
| Efficiency ηDHW                 | 103 %       |  |
| СОР                             | 2.48        |  |
| Heating up time                 | 01:46 h:min |  |
| Standby power input             | 36 W        |  |
| Reference hot water temperature | 52.5 °C     |  |
| Mixed water at 40°C             | 292 I       |  |



# Model: PUHZ-SW100YHA(-BS) + EHSC-\*M\*C

| Configure model                     |                                |  |
|-------------------------------------|--------------------------------|--|
| Model name                          | PUHZ-SW100YHA(-BS) + EHSC-*M*C |  |
| Application                         | Heating (medium temp)          |  |
| Units                               | Indoor + Outdoor               |  |
| Climate Zone                        | n/a                            |  |
| Reversibility                       | No                             |  |
| Cooling mode application (optional) | n/a                            |  |

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

### Heating

| EN 14511-2  |                 |                    |
|-------------|-----------------|--------------------|
|             | Low temperature | Medium temperature |
| Heat output | 11.2 kW         | 11.2 kW            |
| El input    | 2.52 kW         | 4.46 kW            |
| СОР         | 4.44            | 2.51               |

| EN 14511-4                                 |        |
|--|--------|
| Shutting off the heat transfer medium flow | passed |
| Complete power supply failure              | passed |
| Defrost test                               | passed |
| Starting and operating test                | passed |



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

| EN 14825       |                 |                    |
|----------------|-----------------|--------------------|
|                | Low temperature | Medium temperature |
| $\eta_{s}$     | 163 %           | 125 %              |
| Prated         | 10.4 kW         | 10 kW              |
| SCOP           | 4.16            | 3.2                |
| Tbiv           | -7 °C           | -7 °C              |
| TOL            | -20 °C          | -20 °C             |
| Pdh Tj = -7°C  | 9.2 kW          | 8.9 kW             |
| COP Tj = -7°C  | 2.47            | 1.79               |
| Cdh Tj = -7 °C | 0.996           | 0.99               |
| Pdh Tj = +2°C  | 5.6 kW          | 5.4 kW             |
| COP Tj = +2°C  | 4.23            | 3.19               |
| Cdh Tj = +2 °C | 0.989           | 0.99               |
| Pdh Tj = +7°C  | 4.3 kW          | 3.9 kW             |
| COP Tj = +7°C  | 5.54            | 4.39               |
| Cdh Tj = +7 °C | 0.981           | 0.99               |
| , -            |                 |                    |



|   | <del></del> |             |
|---|-------------|-------------|
| Pdh Tj = 12°C                                       | 7.3 kW      | 7 kW        |
| COP Tj = 12°C                                       | 7.43        | 6.58        |
| Cdh Tj = +12 °C                                     | 0.985       | 0.99        |
| Pdh Tj = Tbiv                                       | 9.2 kW      | 8.9 kW      |
| COP Tj = Tbiv                                       | 2.47        | 1.79        |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 8.58 kW     | 8.35 kW     |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.21        | 1.7         |
| WTOL  | 60 °C       | 60 °C       |
| Poff  | 22 W        | 22 W        |
| РТО   | 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                          | 1.82 kW     | 1.65 kW     |
| Annual energy consumption Qhe                       | 5166 kWh    | 6449 kWh    |



# Model: PUHZ-SW100YHA(-BS) + EHSC-M\*C

| Configure model                     |                               |  |
|-------------------------------------|-------------------------------|--|
| Model name                          | PUHZ-SW100YHA(-BS) + EHSC-M*C |  |
| Application                         | Heating (medium temp)         |  |
| Units                               | Indoor + Outdoor              |  |
| Climate Zone                        | n/a                           |  |
| Reversibility                       | No                            |  |
| Cooling mode application (optional) | n/a                           |  |

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

### Heating

| EN 14511-2  |                 |                    |
|-------------|-----------------|--------------------|
|             | Low temperature | Medium temperature |
| Heat output | 11.2 kW         | 11.2 kW            |
| El input    | 2.52 kW         | 4.46 kW            |
| СОР         | 4.44            | 2.51               |

| EN 14511-4                                 |        |
|--|--------|
| Shutting off the heat transfer medium flow | passed |
| Complete power supply failure              | passed |
| Defrost test                               | passed |
| Starting and operating test                | passed |



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

| EN 14825       |                 |                    |
|----------------|-----------------|--------------------|
|                | Low temperature | Medium temperature |
| $\eta_{s}$     | 163 %           | 125 %              |
| Prated         | 10.4 kW         | 10 kW              |
| SCOP           | 4.16            | 3.2                |
| Tbiv           | -7 °C           | -7 °C              |
| TOL            | -20 °C          | -20 °C             |
| Pdh Tj = -7°C  | 9.2 kW          | 8.9 kW             |
| COP Tj = -7°C  | 2.47            | 1.79               |
| Cdh Tj = -7 °C | 0.996           | 0.99               |
| Pdh Tj = +2°C  | 5.6 kW          | 5.4 kW             |
| COP Tj = +2°C  | 4.23            | 3.19               |
| Cdh Tj = +2 °C | 0.989           | 0.99               |
| Pdh Tj = +7°C  | 4.3 kW          | 3.9 kW             |
| COP Tj = +7°C  | 5.54            | 4.39               |
| Cdh Tj = +7 °C | 0.981           | 0.99               |
|                | 51552           |                    |



|   | <del></del> |             |
|---|-------------|-------------|
| Pdh Tj = 12°C                                       | 7.3 kW      | 7 kW        |
| COP Tj = 12°C                                       | 7.43        | 6.58        |
| Cdh Tj = +12 °C                                     | 0.985       | 0.99        |
| Pdh Tj = Tbiv                                       | 9.2 kW      | 8.9 kW      |
| COP Tj = Tbiv                                       | 2.47        | 1.79        |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 8.58 kW     | 8.35 kW     |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.21        | 1.7         |
| WTOL  | 60 °C       | 60 °C       |
| Poff  | 22 W        | 22 W        |
| РТО   | 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                          | 1.82 kW     | 1.65 kW     |
| Annual energy consumption Qhe                       | 5166 kWh    | 6449 kWh    |



# Model: PUHZ-SW100YHA(-BS) + EHST20C-\*M\*C

| Configure model                     |                                   |  |
|-------------------------------------|-----------------------------------|--|
| Model name                          | PUHZ-SW100YHA(-BS) + EHST20C-*M*C |  |
| Application                         | Heating + DHW                     |  |
| Units                               | Indoor + Outdoor                  |  |
| Climate Zone                        | n/a                               |  |
| Reversibility                       | No                                |  |
| Cooling mode application (optional) | n/a                               |  |

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

### Heating

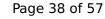
| EN 14511-2  |                 |                    |
|-------------|-----------------|--------------------|
|             | Low temperature | Medium temperature |
| Heat output | 11.2 kW         |                    |
| El input    | 4.46 kW         |                    |
| СОР         | 2.51            |                    |

| EN 14511-4                                 |        |
|--|--------|
| Shutting off the heat transfer medium flow | passed |
| Complete power supply failure              | passed |
| Defrost test                               | passed |
| Starting and operating test                | passed |



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

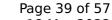
| EN 14825       |                 |                    |
|----------------|-----------------|--------------------|
|                | Low temperature | Medium temperature |
| $\eta_{s}$     | 125 %           |                    |
| Prated         | 10 kW           |                    |
| SCOP           | 3.2             |                    |
| Tbiv           | -7 °C           |                    |
| TOL            | -20 °C          |                    |
| Pdh Tj = -7°C  | 8.9 kW          |                    |
| COP Tj = -7°C  | 1.79            |                    |
| Cdh Tj = -7 °C | 0.99            |                    |
| Pdh Tj = +2°C  | 5.4 kW          |                    |
| COP Tj = +2°C  | 3.19            |                    |
| Cdh Tj = +2 °C | 0.99            |                    |
| Pdh Tj = +7°C  | 3.9 kW          |                    |
| COP Tj = +7°C  | 4.39            |                    |
| Cdh Tj = +7 °C | 0.99            |                    |





| Pdh Tj = 12°C                                       | 7 kW        |
|---|-------------|
| COP Tj = 12°C                                       | 6.58        |
| Cdh Tj = +12 °C                                     | 0.99        |
| Pdh Tj = Tbiv                                       | 8.9 kW      |
| COP Tj = Tbiv                                       | 1.79        |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 8.35 kW     |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 1.7         |
| WTOL  | 60 °C       |
| Poff  | 22 W        |
| РТО   | 22 W        |
| PSB   | 22 W        |
| PCK   | 0 W         |
| Supplementary Heater: Type of energy input          | Electricity |
| Supplementary Heater: PSUP                          | 1.65 kW     |
| Annual energy consumption Qhe                       | 6449 kWh    |

## Domestic Hot Water (DHW)





| EN 16147                        |             |  |
|---------------------------------|-------------|--|
| Declared load profile           | L           |  |
| Efficiency ηDHW                 | 103 %       |  |
| СОР                             | 2.48        |  |
| Heating up time                 | 01:46 h:min |  |
| Standby power input             | 36 W        |  |
| Reference hot water temperature | 52.5 °C     |  |
| Mixed water at 40°C             | 292 I       |  |



# Model: PUHZ-SW100YHA(-BS) + EHST20C-M\*C

| Configure model                     |                                  |  |
|-------------------------------------|----------------------------------|--|
| Model name                          | PUHZ-SW100YHA(-BS) + EHST20C-M*C |  |
| Application                         | Heating + DHW                    |  |
| Units                               | Indoor + Outdoor                 |  |
| Climate Zone                        | n/a                              |  |
| Reversibility                       | No                               |  |
| Cooling mode application (optional) | n/a                              |  |

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

### Heating

| EN 14511-2  |                 |                    |  |
|-------------|-----------------|--------------------|--|
|             | Low temperature | Medium temperature |  |
| Heat output | 11.2 kW         |                    |  |
| El input    | 4.46 kW         |                    |  |
| СОР         | 2.51            |                    |  |

| EN 14511-4                                 |        |  |
|--|--------|--|
| Shutting off the heat transfer medium flow | passed |  |
| Complete power supply failure              | passed |  |
| Defrost test                               | passed |  |
| Starting and operating test                | passed |  |



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

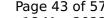
| EN 14825       |                 |                    |
|----------------|-----------------|--------------------|
|                | Low temperature | Medium temperature |
| $\eta_{s}$     | 125 %           |                    |
| Prated         | 10 kW           |                    |
| SCOP           | 3.2             |                    |
| Tbiv           | -7 °C           |                    |
| TOL            | -20 °C          |                    |
| Pdh Tj = -7°C  | 8.9 kW          |                    |
| COP Tj = -7°C  | 1.79            |                    |
| Cdh Tj = -7 °C | 0.99            |                    |
| Pdh Tj = +2°C  | 5.4 kW          |                    |
| COP Tj = +2°C  | 3.19            |                    |
| Cdh Tj = +2 °C | 0.99            |                    |
| Pdh Tj = +7°C  | 3.9 kW          |                    |
| COP Tj = +7°C  | 4.39            |                    |
| Cdh Tj = +7 °C | 0.99            |                    |





|   | <u> </u>    |
|---|-------------|
| Pdh Tj = 12°C                                       | 7 kW        |
| COP Tj = 12°C                                       | 6.58        |
| Cdh Tj = +12 °C                                     | 0.99        |
| Pdh Tj = Tbiv                                       | 8.9 kW      |
| COP Tj = Tbiv                                       | 1.79        |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 8.35 kW     |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 1.7         |
| WTOL  | 60 °C       |
| Poff  | 22 W        |
| РТО   | 22 W        |
| PSB   | 22 W        |
| PCK   | o w         |
| Supplementary Heater: Type of energy input          | Electricity |
| Supplementary Heater: PSUP                          | 1.65 kW     |
| Annual energy consumption Qhe                       | 6449 kWh    |

## Domestic Hot Water (DHW)





# $$\operatorname{\textit{Page}}\xspace$ 43 of 57 This information was generated by the HP KEYMARK database on 18 Mar 2022

| EN 16147                        |             |  |
|---------------------------------|-------------|--|
| Declared load profile           | L           |  |
| Efficiency ηDHW                 | 103 %       |  |
| СОР                             | 2.48        |  |
| Heating up time                 | 01:46 h:min |  |
| Standby power input             | 36 W        |  |
| Reference hot water temperature | 52.5 °C     |  |
| Mixed water at 40°C             | 292 I       |  |



# Model: PUHZ-SW100YHA(-BS) + ERSC-\*M\*C

| Configure model                           |     |  |  |
|---|-----|--|--|
| Model name PUHZ-SW100YHA(-BS) + ERSC-*M*C |     |  |  |
| Application Heating (medium temp)         |     |  |  |
| Units Indoor + Outdoor                    |     |  |  |
| Climate Zone n/a                          |     |  |  |
| Reversibility                             | Yes |  |  |
| Cooling mode application (optional)       | n/a |  |  |

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

### Heating

| EN 14511-2                         |         |         |  |
|------------------------------------|---------|---------|--|
| Low temperature Medium temperature |         |         |  |
| Heat output                        | 11.2 kW | 11.2 kW |  |
| El input                           | 2.52 kW | 4.46 kW |  |
| СОР                                | 4.44    | 2.51    |  |

| EN 14511-4                                 |        |
|--|--------|
| Shutting off the heat transfer medium flow | passed |
| Complete power supply failure              | passed |
| Defrost test                               | passed |
| Starting and operating test                | passed |





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

| EN 14825               |                 |                    |
|------------------------|-----------------|--------------------|
|                        | Low temperature | Medium temperature |
| $\eta_{s}$             | 166 %           | 127 %              |
| Prated                 | 10.4 kW         | 10 kW              |
| SCOP                   | 4.23            | 3.24               |
| Tbiv                   | -7 °C           | -7 °C              |
| TOL                    | -20 °C          | -20 °C             |
| Pdh Tj = -7°C          | 9.2 kW          | 8.9 kW             |
| COP Tj = -7°C          | 2.47            | 1.79               |
| Cdh Tj = -7 °C         | 0.996           | 0.99               |
| Pdh Tj = +2°C          | 5.6 kW          | 5.4 kW             |
| COP Tj = +2°C          | 4.24            | 3.19               |
| Cdh Tj = +2 °C         | 0.989           | 0.99               |
| Pdh Tj = +7°C          | 4.3 kW          | 3.9 kW             |
| $COP Tj = +7^{\circ}C$ | 5.54            | 4.39               |
| Cdh Tj = +7 °C         | 0.981           | 0.99               |
|                        |                 |                    |



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#### This information was generated by the HP KEYMARK database on 18 Mar 2022

| Pdh Tj = 12°C                                       | 7.3 kW      | 7 kW        |
|---|-------------|-------------|
| COP Tj = 12°C                                       | 7.43        | 6.58        |
| Cdh Tj = +12 °C                                     | 0.985       | 0.99        |
| Pdh Tj = Tbiv                                       | 9.2 kW      | 8.9 kW      |
| COP Tj = Tbiv                                       | 2.47        | 1.79        |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 8.58 kW     | 8.35 kW     |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.21        | 1.7         |
| WTOL  | 60 °C       | 60 °C       |
| Poff  | 22 W        | 22 W        |
| РТО   | 22 W        | 22 W        |
| PSB   | 22 W        | 22 W        |
| PCK   | o w         | 0 W         |
| Supplementary Heater: Type of energy input          | Electricity | Electricity |
| Supplementary Heater: PSUP                          | 1.82 kW     | 1.65 kW     |
| Annual energy consumption Qhe                       | 5079 kWh    | 6369 kWh    |



# Model: PUHZ-SW100YHA(-BS) + ERSC-M\*C

| Configure model                          |     |  |  |
|--|-----|--|--|
| Model name PUHZ-SW100YHA(-BS) + ERSC-M*C |     |  |  |
| Application Heating (medium temp)        |     |  |  |
| Units Indoor + Outdoor                   |     |  |  |
| Climate Zone n/a                         |     |  |  |
| Reversibility                            | Yes |  |  |
| Cooling mode application (optional) n/a  |     |  |  |

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

### Heating

| EN 14511-2                         |         |         |  |
|------------------------------------|---------|---------|--|
| Low temperature Medium temperature |         |         |  |
| Heat output                        | 11.2 kW | 11.2 kW |  |
| El input                           | 2.52 kW | 4.46 kW |  |
| СОР                                | 4.44    | 2.51    |  |

| EN 14511-4                                 |        |
|--|--------|
| Shutting off the heat transfer medium flow | passed |
| Complete power supply failure              | passed |
| Defrost test                               | passed |
| Starting and operating test                | passed |



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

| EN 14825                |                 |                    |
|-------------------------|-----------------|--------------------|
|                         | Low temperature | Medium temperature |
| $\eta_{S}$              | 166 %           | 127 %              |
| Prated                  | 10.4 kW         | 10 kW              |
| SCOP                    | 4.23            | 3.24               |
| Tbiv                    | -7 °C           | -7 °C              |
| TOL                     | -20 °C          | -20 °C             |
| Pdh Tj = -7°C           | 9.2 kW          | 8.9 kW             |
| COP Tj = -7°C           | 2.47            | 1.79               |
| Cdh Tj = -7 °C          | 0.996           | 0.99               |
| Pdh Tj = $+2$ °C        | 5.6 kW          | 5.4 kW             |
| COP Tj = +2°C           | 4.24            | 3.19               |
| Cdh Tj = +2 °C          | 0.989           | 0.99               |
| Pdh Tj = $+7^{\circ}$ C | 4.3 kW          | 3.9 kW             |
| COP Tj = +7°C           | 5.54            | 4.39               |
| Cdh Tj = +7 °C          | 0.981           | 0.99               |



| This information was generated by the first tax database on 10 flat 2022 |             |             |  |  |
|--|-------------|-------------|--|--|
| Pdh Tj = 12°C  | 7.3 kW      | 7 kW        |  |  |
| COP Tj = 12°C  | 7.43        | 6.58        |  |  |
| Cdh Tj = +12 °C  | 0.985       | 0.99        |  |  |
| Pdh Tj = Tbiv  | 9.2 kW      | 8.9 kW      |  |  |
| COP Tj = Tbiv  | 2.47        | 1.79        |  |  |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh                      | 8.58 kW     | 8.35 kW     |  |  |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh                      | 2.21        | 1.7         |  |  |
| WTOL   | 60 °C       | 60 °C       |  |  |
| Poff   | 22 W        | 22 W        |  |  |
| РТО  | 22 W        | 22 W        |  |  |
| PSB  | 22 W        | 22 W        |  |  |
| PCK  | o w         | o w         |  |  |
| Supplementary Heater: Type of energy input                               | Electricity | Electricity |  |  |
| Supplementary Heater: PSUP   | 1.82 kW     | 1.65 kW     |  |  |
| Annual energy consumption Qhe  | 5079 kWh    | 6369 kWh    |  |  |

# Model: PUHZ-SW100YHA(-BS) + ERST20C-\*M\*C

| Configure model                     |                                   |  |
|-------------------------------------|-----------------------------------|--|
| Model name                          | PUHZ-SW100YHA(-BS) + ERST20C-*M*C |  |
| Application                         | Heating + DHW                     |  |
| Units Indoor + Outdoor              |                                   |  |
| Climate Zone                        | n/a                               |  |
| Reversibility                       | Yes                               |  |
| Cooling mode application (optional) | n/a                               |  |

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

### Heating

| EN 14511-2  |                 |                    |
|-------------|-----------------|--------------------|
|             | Low temperature | Medium temperature |
| Heat output | 11.2 kW         |                    |
| El input    | 4.46 kW         |                    |
| СОР         | 2.51            |                    |

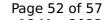
| EN 14511-4                                 |        |
|--|--------|
| Shutting off the heat transfer medium flow | passed |
| Complete power supply failure              | passed |
| Defrost test                               | passed |
| Starting and operating test                | passed |



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

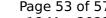
| EN 14825       |                 |                    |
|----------------|-----------------|--------------------|
|                | Low temperature | Medium temperature |
| $\eta_{s}$     | 127 %           |                    |
| Prated         | 10 kW           | _                  |
| SCOP           | 3.24            |                    |
| Tbiv           | -7 °C           |                    |
| TOL            | -20 °C          |                    |
| Pdh Tj = -7°C  | 8.9 kW          |                    |
| COP Tj = -7°C  | 1.79            |                    |
| Cdh Tj = -7 °C | 0.99            |                    |
| Pdh Tj = +2°C  | 5.4 kW          |                    |
| COP Tj = +2°C  | 3.19            |                    |
| Cdh Tj = +2 °C | 0.99            |                    |
| Pdh Tj = +7°C  | 3.9 kW          |                    |
| COP Tj = +7°C  | 4.39            |                    |
| Cdh Tj = +7 °C | 0.99            |                    |





|   | <u> </u>    |
|---|-------------|
| Pdh Tj = 12°C                                       | 7 kW        |
| COP Tj = 12°C                                       | 6.58        |
| Cdh Tj = +12 °C                                     | 0.99        |
| Pdh Tj = Tbiv                                       | 8.9 kW      |
| COP Tj = Tbiv                                       | 1.79        |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 8.35 kW     |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 1.7         |
| WTOL  | 60 °C       |
| Poff  | 22 W        |
| РТО   | 22 W        |
| PSB   | 22 W        |
| PCK   | o w         |
| Supplementary Heater: Type of energy input          | Electricity |
| Supplementary Heater: PSUP                          | 1.65 kW     |
| Annual energy consumption Qhe                       | 6369 kWh    |

## Domestic Hot Water (DHW)





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| EN 16147                        |             |
|---------------------------------|-------------|
| Declared load profile           | L           |
| Efficiency ηDHW                 | 103 %       |
| СОР                             | 2.48        |
| Heating up time                 | 01:46 h:min |
| Standby power input             | 36 W        |
| Reference hot water temperature | 52.5 °C     |
| Mixed water at 40°C             | 292 I       |



# Model: PUHZ-SW100YHA(-BS) + ERST20C-M\*C

| Configure model                             |               |  |
|---|---------------|--|
| Model name PUHZ-SW100YHA(-BS) + ERST20C-M*C |               |  |
| Application                                 | Heating + DHW |  |
| Units Indoor + Outdoor                      |               |  |
| Climate Zone n/a                            |               |  |
| Reversibility Yes                           |               |  |
| Cooling mode application (optional)         | n/a           |  |

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

### Heating

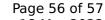
| EN 14511-2  |                 |                    |  |  |
|-------------|-----------------|--------------------|--|--|
|             | Low temperature | Medium temperature |  |  |
| Heat output | 11.2 kW         |                    |  |  |
| El input    | 4.46 kW         |                    |  |  |
| СОР         | 2.51            |                    |  |  |

| EN 14511-4                                 |        |  |  |
|--|--------|--|--|
| Shutting off the heat transfer medium flow | passed |  |  |
| Complete power supply failure              | passed |  |  |
| Defrost test                               | passed |  |  |
| Starting and operating test                | passed |  |  |



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

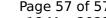
| EN 14825       |                 |                    |  |  |
|----------------|-----------------|--------------------|--|--|
|                | Low temperature | Medium temperature |  |  |
| $\eta_{s}$     | 127 %           |                    |  |  |
| Prated         | 10 kW           | _                  |  |  |
| SCOP           | 3.24            |                    |  |  |
| Tbiv           | -7 °C           |                    |  |  |
| TOL            | -20 °C          |                    |  |  |
| Pdh Tj = -7°C  | 8.9 kW          |                    |  |  |
| COP Tj = -7°C  | 1.79            |                    |  |  |
| Cdh Tj = -7 °C | 0.99            |                    |  |  |
| Pdh Tj = +2°C  | 5.4 kW          |                    |  |  |
| COP Tj = +2°C  | 3.19            |                    |  |  |
| Cdh Tj = +2 °C | 0.99            |                    |  |  |
| Pdh Tj = +7°C  | 3.9 kW          |                    |  |  |
| COP Tj = +7°C  | 4.39            |                    |  |  |
| Cdh Tj = +7 °C | 0.99            |                    |  |  |





| The information was generated by the information    |             |  |  |  |
|---|-------------|--|--|--|
| Pdh Tj = 12°C                                       | 7 kW        |  |  |  |
| COP Tj = 12°C                                       | 6.58        |  |  |  |
| Cdh Tj = +12 °C                                     | 0.99        |  |  |  |
| Pdh Tj = Tbiv                                       | 8.9 kW      |  |  |  |
| COP Tj = Tbiv                                       | 1.79        |  |  |  |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 8.35 kW     |  |  |  |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 1.7         |  |  |  |
| WTOL  | 60 °C       |  |  |  |
| Poff  | 22 W        |  |  |  |
| РТО   | 22 W        |  |  |  |
| PSB   | 22 W        |  |  |  |
| PCK   | o w         |  |  |  |
| Supplementary Heater: Type of energy input          | Electricity |  |  |  |
| Supplementary Heater: PSUP                          | 1.65 kW     |  |  |  |
| Annual energy consumption Qhe                       | 6369 kWh    |  |  |  |

## Domestic Hot Water (DHW)





# $$\operatorname{\textsc{Page}}\xspace$ 57 of 57 This information was generated by the HP KEYMARK database on 18 Mar 2022

| EN 16147                        |             |  |  |  |
|---------------------------------|-------------|--|--|--|
| Declared load profile           | L           |  |  |  |
| Efficiency ηDHW                 | 103 %       |  |  |  |
| СОР                             | 2.48        |  |  |  |
| Heating up time                 | 01:46 h:min |  |  |  |
| Standby power input             | 36 W        |  |  |  |
| Reference hot water temperature | 52.5 °C     |  |  |  |
| Mixed water at 40°C             | 292 I       |  |  |  |