

This information was generated by the HP KEYMARK database on 15 Mar 2023

|                     |   |          |                |
|---------------------|---|----------|----------------|
| Summary of          | Ecodan Multi Inverter 5+200D  | Reg. No. | 037-0099-23    |
| 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 Multi Inverter 5+200D  |          |                |
| Heat Pump Type      | Outdoor Air/Water   |          |                |
| Refrigerant         | R32   |          |                |
| Mass of Refrigerant | 2.4 kg  |          |                |
| Certification Date  | 15.03.2023  |          |                |
| Testing basis       | HP Keymark scheme rules rev. no. 9  |          |                |

# Model: PXZ-5F85VG + EHST20D-\*M\*D

| Configure model                     |                           |
|-------------------------------------|---------------------------|
| Model name                          | PXZ-5F85VG + EHST20D-*M*D |
| Application                         | Heating + DHW + low 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 | 8.5 kW          | 8.5 kW             |
| El input    | 1.96 kW         | 3.31 kW            |
| COP         | 4.34            | 2.57               |

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

## Average Climate

This information was generated by the HP KEYMARK database on 15 Mar 2023

### EN 12102-1

|                           | Low temperature | Medium temperature |
|---------------------------|-----------------|--------------------|
| Sound power level indoor  | 41 dB(A)        | 41 dB(A)           |
| Sound power level outdoor | 64 dB(A)        | 64 dB(A)           |

### EN 14825

|                | Low temperature | Medium temperature |
|----------------|-----------------|--------------------|
| $\eta_s$       | 157 %           | 111 %              |
| Prated         | 7.12 kW         | 6.7 kW             |
| SCOP           | 4               | 2.86               |
| Tbiv           | -7 °C           | -7 °C              |
| TOL            | -20 °C          | -20 °C             |
| Pdh Tj = -7°C  | 6.33 kW         | 5.93 kW            |
| COP Tj = -7°C  | 2.8             | 1.4                |
| Cdh Tj = -7 °C | 0.993           | 0.996              |
| Pdh Tj = +2°C  | 3.95 kW         | 3.66 kW            |
| COP Tj = +2°C  | 4.29            | 3.07               |
| Cdh Tj = +2 °C | 0.984           | 0.987              |
| Pdh Tj = +7°C  | 2.62 kW         | 2.45 kW            |
| COP Tj = +7°C  | 4.72            | 3.92               |
| Cdh Tj = +7 °C | 0.973           | 0.976              |

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|   |             |             |
|---|-------------|-------------|
| Pdh Tj = 12°C                                       | 2.29 kW     | 2.07 kW     |
| COP Tj = 12°C                                       | 4.33        | 4.48        |
| Cdh Tj = +12 °C                                     | 0.972       | 0.968       |
| Pdh Tj = Tbiv                                       | 6.33 kW     | 5.93 kW     |
| COP Tj = Tbiv                                       | 2.8         | 1.4         |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 6.8 kW      | 5.13 kW     |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.5         | 1.21        |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.994       | 0.996       |
| WTOL  | 55 °C       | 55 °C       |
| Poff  | 15 W        | 15 W        |
| PTO   | 15 W        | 15 W        |
| PSB   | 15 W        | 15 W        |
| PCK   | 0 W         | 0 W         |
| Supplementary Heater: Type of energy input          | Electricity | Electricity |
| Supplementary Heater: PSUP                          | 0.32 kW     | 1.57 kW     |
| Annual energy consumption Qhe                       | 3679 kWh    | 4846 kWh    |

## Domestic Hot Water (DHW)

### Average Climate

This information was generated by the HP KEYMARK database on 15 Mar 2023

| <b>EN 16147</b>                 |            |
|---------------------------------|------------|
| Declared load profile           | L          |
| Efficiency $\eta_{DHW}$         | 123 %      |
| COP                             | 2.97       |
| Heating up time                 | 1:47 h:min |
| Standby power input             | 32 W       |
| Reference hot water temperature | 52.5 °C    |
| Mixed water at 40°C             | 278 l      |

## Model: PXZ-5F85VG + ERST20D-\*M\*D

| Configure model                     |                           |
|-------------------------------------|---------------------------|
| Model name                          | PXZ-5F85VG + ERST20D-*M*D |
| Application                         | Heating + DHW + low 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 | 8.5 kW          | 8.5 kW             |
| El input    | 1.96 kW         | 3.31 kW            |
| COP         | 4.34            | 2.57               |

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

### Average Climate

This information was generated by the HP KEYMARK database on 15 Mar 2023

### EN 12102-1

|                           | Low temperature | Medium temperature |
|---------------------------|-----------------|--------------------|
| Sound power level indoor  | 41 dB(A)        | 41 dB(A)           |
| Sound power level outdoor | 64 dB(A)        | 64 dB(A)           |

### EN 14825

|                | Low temperature | Medium temperature |
|----------------|-----------------|--------------------|
| $\eta_s$       | 157 %           | 111 %              |
| Prated         | 7.12 kW         | 6.7 kW             |
| SCOP           | 4               | 2.86               |
| Tbiv           | -7 °C           | -7 °C              |
| TOL            | -20 °C          | -20 °C             |
| Pdh Tj = -7°C  | 6.33 kW         | 5.93 kW            |
| COP Tj = -7°C  | 2.8             | 1.4                |
| Cdh Tj = -7 °C | 0.993           | 0.996              |
| Pdh Tj = +2°C  | 3.95 kW         | 3.66 kW            |
| COP Tj = +2°C  | 4.29            | 3.07               |
| Cdh Tj = +2 °C | 0.984           | 0.987              |
| Pdh Tj = +7°C  | 2.62 kW         | 2.45 kW            |
| COP Tj = +7°C  | 4.72            | 3.92               |
| Cdh Tj = +7 °C | 0.973           | 0.976              |

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|   |             |             |
|---|-------------|-------------|
| Pdh Tj = 12°C                                       | 2.29 kW     | 2.07 kW     |
| COP Tj = 12°C                                       | 4.33        | 4.48        |
| Cdh Tj = +12 °C                                     | 0.972       | 0.968       |
| Pdh Tj = Tbiv                                       | 6.33 kW     | 5.93 kW     |
| COP Tj = Tbiv                                       | 2.8         | 1.4         |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 6.8 kW      | 5.13 kW     |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.5         | 1.21        |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.994       | 0.996       |
| WTOL  | 55 °C       | 55 °C       |
| Poff  | 15 W        | 15 W        |
| PTO   | 15 W        | 15 W        |
| PSB   | 15 W        | 15 W        |
| PCK   | 0 W         | 0 W         |
| Supplementary Heater: Type of energy input          | Electricity | Electricity |
| Supplementary Heater: PSUP                          | 0.32 kW     | 1.57 kW     |
| Annual energy consumption Qhe                       | 3679 kWh    | 4846 kWh    |

## Domestic Hot Water (DHW)

### Average Climate



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| COP                             | 2.97       |
| Heating up time                 | 1:47 h:min |
| Standby power input             | 32 W       |
| Reference hot water temperature | 52.5 °C    |
| Mixed water at 40°C             | 278 l      |

## Model: PXZ-5F85VG + EHSD-\*M\*D

| Configure model                     |                        |
|-------------------------------------|------------------------|
| Model name                          | PXZ-5F85VG + EHSD-*M*D |
| 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 | 8.5 kW          | 8.5 kW             |
| El input    | 1.96 kW         | 3.31 kW            |
| COP         | 4.34            | 2.57               |

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

### Average Climate

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|                           | Low temperature | Medium temperature |
|---------------------------|-----------------|--------------------|
| Sound power level indoor  | 41 dB(A)        | 41 dB(A)           |
| Sound power level outdoor | 64 dB(A)        | 64 dB(A)           |

### EN 14825

|                | Low temperature | Medium temperature |
|----------------|-----------------|--------------------|
| $\eta_s$       | 157 %           | 111 %              |
| Prated         | 7.12 kW         | 6.7 kW             |
| SCOP           | 4               | 2.86               |
| Tbiv           | -7 °C           | -7 °C              |
| TOL            | -20 °C          | -20 °C             |
| Pdh Tj = -7°C  | 6.33 kW         | 5.93 kW            |
| COP Tj = -7°C  | 2.8             | 1.4                |
| Cdh Tj = -7 °C | 0.993           | 0.996              |
| Pdh Tj = +2°C  | 3.95 kW         | 3.66 kW            |
| COP Tj = +2°C  | 4.29            | 3.07               |
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| WTOL  | 55 °C       | 55 °C       |
| Poff  | 15 W        | 15 W        |
| PTO   | 15 W        | 15 W        |
| PSB   | 15 W        | 15 W        |
| PCK   | 0 W         | 0 W         |
| Supplementary Heater: Type of energy input          | Electricity | Electricity |
| Supplementary Heater: PSUP                          | 0.32 kW     | 1.57 kW     |
| Annual energy consumption Qhe                       | 3679 kWh    | 4846 kWh    |

## Model: PXZ-5F85VG + ERSD-\*M\*D

| Configure model                     |                        |
|-------------------------------------|------------------------|
| Model name                          | PXZ-5F85VG + ERSD-*M*D |
| Application                         | Heating (medium temp)  |
| Units                               | Indoor + Outdoor       |
| Climate Zone                        | n/a                    |
| Reversibility                       | Yes                    |
| Cooling mode application (optional) | n/a                    |

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

### Heating

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