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

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| Summary of          | Ecodan Eco Inverter 4-200D  | Reg. No. | 037-0008-19    |  |  |
|---------------------|---|----------|----------------|--|--|
| Certificate Holder  | 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 Eco Inverter 4-200D  |          |                |  |  |
| Heat Pump Type      | Outdoor Air/Water   |          |                |  |  |
| Refrigerant         | R32   |          |                |  |  |
| Mass of Refrigerant | 1.2 kg  |          |                |  |  |
| Certification Date  | 15.10.2019  |          |                |  |  |
| Testing basis       | HP Keymark scheme rules rev. no. 6  |          |                |  |  |



## Model: SUZ-SWM40VA + EHST20D-M\*D

| Configure model                     |                           |  |
|-------------------------------------|---------------------------|--|
| Model name                          | SUZ-SWM40VA + EHST20D-M*D |  |
| Application                         | Heating + DHW + low temp  |  |
| Units                               | Indoor + Outdoor          |  |
| Climate Zone                        | Warmer Climate            |  |
| Reversibility                       | No                        |  |
| Cooling mode application (optional) | n/a                       |  |

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

### Heating

| EN 14511-2                         |         |         |  |
|------------------------------------|---------|---------|--|
| Low temperature Medium temperature |         |         |  |
| Heat output                        | 4 kW    | 4.5 kW  |  |
| El input                           | 0.77 kW | 1.72 kW |  |
| СОР                                | 5.2     | 2.61    |  |

| 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  | 41 dB(A)        | 41 dB(A)           |  |
| Sound power level outdoor | 58 dB(A)        | 58 dB(A)           |  |

| EN 14825                |                 |                    |  |
|-------------------------|-----------------|--------------------|--|
|                         | Low temperature | Medium temperature |  |
| $\eta_{s}$              | 180 %           | 129 %              |  |
| Prated                  | 5.1 kW          | 4.6 kW             |  |
| SCOP                    | 4.58            | 3.29               |  |
| Tbiv                    | -7 °C           | -7 °C              |  |
| TOL                     | -20 °C          | -20 °C             |  |
| Pdh Tj = -7°C           | 4.5 kW          | 4.1 kW             |  |
| COP Tj = -7°C           | 2.88            | 2.02               |  |
| Cdh Tj = -7 °C          | 0.99            | 0.99               |  |
| Pdh Tj = $+2$ °C        | 2.7 kW          | 2.5 kW             |  |
| COP Tj = +2°C           | 4.5             | 3.2                |  |
| Cdh Tj = +2 °C          | 0.98            | 0.98               |  |
| Pdh Tj = $+7^{\circ}$ C | 2.6 kW          | 2.6 kW             |  |
| $COP Tj = +7^{\circ}C$  | 6.5             | 4.64               |  |
| Cdh Tj = +7 °C          | 0.96            | 0.97               |  |





| Pdh Tj = 12°C                                       | 2.6 kW      | 2.3 kW      |
|---|-------------|-------------|
| COP Tj = 12°C                                       | 8.97        | 6.57        |
| Cdh Tj = +12 °C                                     | 0.95        | 0.96        |
| Pdh Tj = Tbiv                                       | 4.5 kW      | 4.1 kW      |
| COP Tj = Tbiv                                       | 2.88        | 2.02        |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 4.36 kW     | 4.05 kW     |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.59        | 1.91        |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.991       | 0.993       |
| WTOL  | 60 °C       | 60 °C       |
| Poff  | 15 W        | 15 W        |
| РТО   | 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                          | 0.74 kW     | 0.55 kW     |
| Annual energy consumption Qhe                       | 2301 kWh    | 2888 kWh    |
| · · · · · · · · · · · · · · · · · · ·               |             |             |



| EN 12102-1                |                 |                    |  |
|---------------------------|-----------------|--------------------|--|
|                           | Low temperature | Medium temperature |  |
| Sound power level indoor  | 41 dB(A)        | 41 dB(A)           |  |
| Sound power level outdoor | 58 dB(A)        | 58 dB(A)           |  |

| EN 14825                |                 |                    |  |
|-------------------------|-----------------|--------------------|--|
|                         | Low temperature | Medium temperature |  |
| $\eta_{s}$              | 216 %           | 155 %              |  |
| Prated                  | 5.1 kW          | 4.6 kW             |  |
| SCOP                    | 5.46            | 3.94               |  |
| Tbiv                    | 2 °C            | 2 °C               |  |
| TOL                     | -20 °C          | -20 °C             |  |
| Pdh Tj = $+2$ °C        | 5.1 kW          | 4.6 kW             |  |
| COP Tj = +2°C           | 3.25            | 1.85               |  |
| Cdh Tj = +2 °C          | 0.99            | 0.99               |  |
| Pdh Tj = $+7^{\circ}$ C | 3.3 kW          | 3 kW               |  |
| $COPTj = +7^{\circ}C$   | 5.28            | 3.51               |  |
| Cdh Tj = +7 °C          | 0.98            | 0.98               |  |
| Pdh Tj = 12°C           | 1.9 kW          | 1.9 kW             |  |
| COP Tj = 12°C           | 7.04            | 5.59               |  |
| Cdh Tj = +12 °C         | 0.94            | 0.96               |  |





| Pdh Tj = Tbiv                                       | 5.1 kW      | 4.6 kW      |
|---|-------------|-------------|
| COP Tj = Tbiv                                       | 3.25        | 1.85        |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 5.1 kW      | 4.6 kW      |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 3.25        | 1.85        |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.99        | 0.994       |
| 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                          | 0 kW        | 0 kW        |
| Annual energy consumption Qhe                       | 1247 kWh    | 1560 kWh    |
|   |             |             |

Domestic Hot Water (DHW)



| EN 16147                        |            |  |
|---------------------------------|------------|--|
| Declared load profile           | L          |  |
| Efficiency ηDHW                 | 159 %      |  |
| СОР                             | 3.8        |  |
| Heating up time                 | 2:51 h:min |  |
| Standby power input             | 24 W       |  |
| Reference hot water temperature | 52.5 °C    |  |
| Mixed water at 40°C             | 278        |  |

| EN 16147                        |            |  |
|---------------------------------|------------|--|
| Declared load profile           | L          |  |
| Efficiency ηDHW                 | 173 %      |  |
| СОР                             | 4.13       |  |
| Heating up time                 | 2:22 h:min |  |
| Standby power input             | 22 W       |  |
| Reference hot water temperature | 52.5 °C    |  |
| Mixed water at 40°C             | 278        |  |

## Model: SUZ-SWM40VA + EHST20D-\*M\*D

| Configure model                       |                          |  |
|---------------------------------------|--------------------------|--|
| Model name SUZ-SWM40VA + EHST20D-*M*D |                          |  |
| Application                           | Heating + DHW + low temp |  |
| Units                                 | Indoor + Outdoor         |  |
| Climate Zone                          | Warmer Climate           |  |
| Reversibility                         | No                       |  |
| Cooling mode application (optional)   | n/a                      |  |

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

### Heating

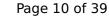
| EN 14511-2                         |         |         |  |
|------------------------------------|---------|---------|--|
| Low temperature Medium temperature |         |         |  |
| Heat output                        | 4 kW    | 4.5 kW  |  |
| El input                           | 0.77 kW | 1.72 kW |  |
| СОР                                | 5.2     | 2.61    |  |

| 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  | 41 dB(A)        | 41 dB(A)           |
| Sound power level outdoor | 58 dB(A)        | 58 dB(A)           |

| EN 14825                |                 |                    |
|-------------------------|-----------------|--------------------|
|                         | Low temperature | Medium temperature |
| $\eta_{s}$              | 180 %           | 129 %              |
| Prated                  | 5.1 kW          | 4.6 kW             |
| SCOP                    | 4.58            | 3.29               |
| Tbiv                    | -7 °C           | -7 °C              |
| TOL                     | -20 °C          | -20 °C             |
| Pdh Tj = -7°C           | 4.5 kW          | 4.1 kW             |
| COP Tj = $-7^{\circ}$ C | 2.88            | 2.02               |
| Cdh Tj = -7 °C          | 0.99            | 0.99               |
| Pdh Tj = $+2$ °C        | 2.7 kW          | 2.5 kW             |
| $COPTj = +2^{\circ}C$   | 4.5             | 3.2                |
| Cdh Tj = +2 °C          | 0.98            | 0.98               |
| Pdh Tj = $+7^{\circ}$ C | 2.6 kW          | 2.6 kW             |
| $COPTj = +7^{\circ}C$   | 6.5             | 4.64               |
| Cdh Tj = +7 °C          | 0.96            | 0.97               |



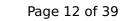


| 2.6 kW      | 2.3 kW   |
|-------------|--|
| 8.97        | 6.57   |
| 0.95        | 0.96   |
| 4.5 kW      | 4.1 kW   |
| 2.88        | 2.02   |
| 4.36 kW     | 4.05 kW  |
| 2.59        | 1.91   |
| 0.991       | 0.993  |
| 60 °C       | 60 °C  |
| 15 W        | 15 W   |
| 15 W        | 15 W   |
| 15 W        | 15 W   |
| 0 W         | 0 W  |
| Electricity | Electricity  |
| 0.74 kW     | 0.55 kW  |
| 2301 kWh    | 2888 kWh   |
|             | 8.97  0.95  4.5 kW  2.88  4.36 kW  2.59  0.991  60 °C  15 W  15 W  0 W  Electricity  0.74 kW |



| EN 12102-1                |                 |                    |  |
|---------------------------|-----------------|--------------------|--|
|                           | Low temperature | Medium temperature |  |
| Sound power level indoor  | 41 dB(A)        | 41 dB(A)           |  |
| Sound power level outdoor | 58 dB(A)        | 58 dB(A)           |  |

| EN 14825        |  |  |
|-----------------|--|--|
| Low temperature | Medium temperature   |  |
| 216 %           | 155 %  |  |
| 5.1 kW          | 4.6 kW   |  |
| 5.46            | 3.94   |  |
| 2 °C            | 2 °C   |  |
| -20 °C          | -20 °C   |  |
| 5.1 kW          | 4.6 kW   |  |
| 3.25            | 1.85   |  |
| 0.99            | 0.99   |  |
| 3.3 kW          | 3 kW   |  |
| 5.28            | 3.51   |  |
| 0.98            | 0.98   |  |
| 1.9 kW          | 1.9 kW   |  |
| 7.04            | 5.59   |  |
| 0.94            | 0.96   |  |
|                 | Low temperature  216 %  5.1 kW  5.46  2 °C  -20 °C  5.1 kW  3.25  0.99  3.3 kW  5.28  0.98  1.9 kW  7.04 |  |





| Pdh Tj = Tbiv                                       | 5.1 kW      | 4.6 kW      |
|---|-------------|-------------|
| COP Tj = Tbiv                                       | 3.25        | 1.85        |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 5.1 kW      | 4.6 kW      |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 3.25        | 1.85        |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.99        | 0.994       |
| 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                          | 0 kW        | 0 kW        |
| Annual energy consumption Qhe                       | 1247 kWh    | 1560 kWh    |
|   | *           |             |

Domestic Hot Water (DHW)

278 I



EN 16147 Declared load profile Efficiency ηDHW 159 % COP 3.8 2:51 h:min Heating up time Standby power input 24 W 52.5 °C Reference hot water temperature

#### Warmer Climate

Mixed water at 40°C

| EN 16147                        |            |  |
|---------------------------------|------------|--|
| Declared load profile           | L          |  |
| Efficiency ηDHW                 | 173 %      |  |
| СОР                             | 4.13       |  |
| Heating up time                 | 2:22 h:min |  |
| Standby power input             | 22 W       |  |
| Reference hot water temperature | 52.5 °C    |  |
| Mixed water at 40°C             | 278 I      |  |



## Model: SUZ-SWM40VA + EHSD-M\*D

| Configure model                     |                        |  |
|-------------------------------------|------------------------|--|
| Model name                          | SUZ-SWM40VA + EHSD-M*D |  |
| Application                         | Heating (medium temp)  |  |
| Units                               | Indoor + Outdoor       |  |
| Climate Zone                        | Warmer Climate         |  |
| Reversibility                       | No                     |  |
| Cooling mode application (optional) | n/a                    |  |

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

### Heating

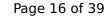
| EN 14511-2  |                 |                    |  |
|-------------|-----------------|--------------------|--|
|             | Low temperature | Medium temperature |  |
| Heat output | 4 kW            | 4.5 kW             |  |
| El input    | 0.77 kW         | 1.72 kW            |  |
| СОР         | 5.2             | 2.61               |  |

| EN 14511-4                                 |        |
|--|--------|
| Shutting off the heat transfer medium flow | naccod |
| 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  | 41 dB(A)        | 41 dB(A)           |
| Sound power level outdoor | 58 dB(A)        | 58 dB(A)           |

| EN 14825                |                 |                    |
|-------------------------|-----------------|--------------------|
|                         | Low temperature | Medium temperature |
| $\eta_{s}$              | 180 %           | 129 %              |
| Prated                  | 5.1 kW          | 4.6 kW             |
| SCOP                    | 4.58            | 3.29               |
| Tbiv                    | -7 °C           | -7 °C              |
| TOL                     | -20 °C          | -20 °C             |
| Pdh Tj = -7°C           | 4.5 kW          | 4.1 kW             |
| COP Tj = -7°C           | 2.88            | 2.02               |
| Cdh Tj = -7 °C          | 0.99            | 0.99               |
| Pdh Tj = $+2$ °C        | 2.7 kW          | 2.5 kW             |
| COP Tj = +2°C           | 4.5             | 3.2                |
| Cdh Tj = +2 °C          | 0.98            | 0.98               |
| Pdh Tj = $+7^{\circ}$ C | 2.6 kW          | 2.6 kW             |
| $COP Tj = +7^{\circ}C$  | 6.5             | 4.64               |
| Cdh Tj = +7 °C          | 0.96            | 0.97               |





| 2.6 kW      | 2.3 kW   |
|-------------|--|
| 8.97        | 6.57   |
| 0.95        | 0.96   |
| 4.5 kW      | 4.1 kW   |
| 2.88        | 2.02   |
| 4.36 kW     | 4.05 kW  |
| 2.59        | 1.91   |
| 0.991       | 0.993  |
| 60 °C       | 60 °C  |
| 15 W        | 15 W   |
| 15 W        | 15 W   |
| 15 W        | 15 W   |
| 0 W         | 0 W  |
| Electricity | Electricity  |
| 0.74 kW     | 0.55 kW  |
| 2301 kWh    | 2888 kWh   |
|             | 8.97  0.95  4.5 kW  2.88  4.36 kW  2.59  0.991  60 °C  15 W  15 W  0 W  Electricity  0.74 kW |



| EN 12102-1                |                 |                    |
|---------------------------|-----------------|--------------------|
|                           | Low temperature | Medium temperature |
| Sound power level indoor  | 41 dB(A)        | 41 dB(A)           |
| Sound power level outdoor | 58 dB(A)        | 58 dB(A)           |

| EN 14825                |                 |                    |
|-------------------------|-----------------|--------------------|
|                         | Low temperature | Medium temperature |
| $\eta_{s}$              | 216 %           | 155 %              |
| Prated                  | 5.1 kW          | 4.6 kW             |
| SCOP                    | 5.46            | 3.94               |
| Tbiv                    | 2 °C            | 2 °C               |
| TOL                     | -20 °C          | -20 °C             |
| Pdh Tj = $+2$ °C        | 5.1 kW          | 4.6 kW             |
| COP Tj = +2°C           | 3.25            | 1.85               |
| Cdh Tj = +2 °C          | 0.99            | 0.99               |
| Pdh Tj = $+7^{\circ}$ C | 3.3 kW          | 3 kW               |
| $COPTj = +7^{\circ}C$   | 5.28            | 3.51               |
| Cdh Tj = +7 °C          | 0.98            | 0.98               |
| Pdh Tj = 12°C           | 1.9 kW          | 1.9 kW             |
| COP Tj = 12°C           | 7.04            | 5.59               |
| Cdh Tj = +12 °C         | 0.94            | 0.96               |



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

| Pdh Tj = Tbiv                                       | 5.1 kW      | 4.6 kW      |
|---|-------------|-------------|
| COP Tj = Tbiv                                       | 3.25        | 1.85        |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 5.1 kW      | 4.6 kW      |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 3.25        | 1.85        |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.99        | 0.994       |
| 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                          | 0 kW        | 0 kW        |
| Annual energy consumption Qhe                       | 1247 kWh    | 1560 kWh    |



## Model: SUZ-SWM40VA + EHSD-\*M\*D

| Configure model                     |                         |  |
|-------------------------------------|-------------------------|--|
| Model name                          | SUZ-SWM40VA + EHSD-*M*D |  |
| Application                         | Heating (medium temp)   |  |
| Units                               | Indoor + Outdoor        |  |
| Climate Zone                        | Warmer Climate          |  |
| Reversibility                       | No                      |  |
| Cooling mode application (optional) | n/a                     |  |

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

### Heating

| EN 14511-2  |                 |                    |
|-------------|-----------------|--------------------|
|             | Low temperature | Medium temperature |
| Heat output | 4 kW            | 4.5 kW             |
| El input    | 0.77 kW         | 1.72 kW            |
| СОР         | 5.2             | 2.61               |

| 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  | 41 dB(A)        | 41 dB(A)           |
| Sound power level outdoor | 58 dB(A)        | 58 dB(A)           |

| EN 14825                |                 |                    |
|-------------------------|-----------------|--------------------|
|                         | Low temperature | Medium temperature |
| $\eta_{s}$              | 180 %           | 129 %              |
| Prated                  | 5.1 kW          | 4.6 kW             |
| SCOP                    | 4.58            | 3.29               |
| Tbiv                    | -7 °C           | -7 °C              |
| TOL                     | -20 °C          | -20 °C             |
| Pdh Tj = -7°C           | 4.5 kW          | 4.1 kW             |
| COP Tj = -7°C           | 2.88            | 2.02               |
| Cdh Tj = -7 °C          | 0.99            | 0.99               |
| Pdh Tj = $+2$ °C        | 2.7 kW          | 2.5 kW             |
| COP Tj = +2°C           | 4.5             | 3.2                |
| Cdh Tj = +2 °C          | 0.98            | 0.98               |
| Pdh Tj = $+7^{\circ}$ C | 2.6 kW          | 2.6 kW             |
| $COP Tj = +7^{\circ}C$  | 6.5             | 4.64               |
| Cdh Tj = +7 °C          | 0.96            | 0.97               |





| Pdh Tj = 12°C                                       | 2.6 kW      | 2.3 kW      |
|---|-------------|-------------|
| COP Tj = 12°C                                       | 8.97        | 6.57        |
| Cdh Tj = +12 °C                                     | 0.95        | 0.96        |
| Pdh Tj = Tbiv                                       | 4.5 kW      | 4.1 kW      |
| COP Tj = Tbiv                                       | 2.88        | 2.02        |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 4.36 kW     | 4.05 kW     |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.59        | 1.91        |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.991       | 0.993       |
| 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                          | 0.74 kW     | 0.55 kW     |
| Annual energy consumption Qhe                       | 2301 kWh    | 2888 kWh    |



| EN 12102-1                |                 |                    |
|---------------------------|-----------------|--------------------|
|                           | Low temperature | Medium temperature |
| Sound power level indoor  | 41 dB(A)        | 41 dB(A)           |
| Sound power level outdoor | 58 dB(A)        | 58 dB(A)           |

| EN 14825                |                 |                    |
|-------------------------|-----------------|--------------------|
|                         | Low temperature | Medium temperature |
| $\eta_{s}$              | 216 %           | 155 %              |
| Prated                  | 5.1 kW          | 4.6 kW             |
| SCOP                    | 5.46            | 3.94               |
| Tbiv                    | 2 °C            | 2 °C               |
| TOL                     | -20 °C          | -20 °C             |
| Pdh Tj = $+2$ °C        | 5.1 kW          | 4.6 kW             |
| COP Tj = +2°C           | 3.25            | 1.85               |
| Cdh Tj = +2 °C          | 0.99            | 0.99               |
| Pdh Tj = $+7^{\circ}$ C | 3.3 kW          | 3 kW               |
| $COPTj = +7^{\circ}C$   | 5.28            | 3.51               |
| Cdh Tj = +7 °C          | 0.98            | 0.98               |
| Pdh Tj = 12°C           | 1.9 kW          | 1.9 kW             |
| COP Tj = 12°C           | 7.04            | 5.59               |
| Cdh Tj = +12 °C         | 0.94            | 0.96               |



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

| Pdh Tj = Tbiv                                       | 5.1 kW      | 4.6 kW      |
|---|-------------|-------------|
| COP Tj = Tbiv                                       | 3.25        | 1.85        |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 5.1 kW      | 4.6 kW      |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 3.25        | 1.85        |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.99        | 0.994       |
| 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                          | 0 kW        | 0 kW        |
| Annual energy consumption Qhe                       | 1247 kWh    | 1560 kWh    |



## Model: SUZ-SWM40VA + ERST20D-\*M\*D

| Configure model                     |                            |  |
|-------------------------------------|----------------------------|--|
| Model name                          | SUZ-SWM40VA + ERST20D-*M*D |  |
| Application                         | Heating + DHW + low temp   |  |
| Units                               | Indoor + Outdoor           |  |
| Climate Zone                        | Warmer Climate             |  |
| Reversibility                       | Yes                        |  |
| Cooling mode application (optional) | n/a                        |  |

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

### Heating

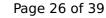
| EN 14511-2  |                 |                    |
|-------------|-----------------|--------------------|
|             | Low temperature | Medium temperature |
| Heat output | 4 kW            | 4.5 kW             |
| El input    | 0.77 kW         | 1.72 kW            |
| СОР         | 5.2             | 2.61               |

| 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  | 41 dB(A)        | 41 dB(A)           |
| Sound power level outdoor | 58 dB(A)        | 58 dB(A)           |

| EN 14825       |                 |                    |
|----------------|-----------------|--------------------|
|                | Low temperature | Medium temperature |
| $\eta_{s}$     | 187 %           | 132 %              |
| Prated         | 5.1 kW          | 4.6 kW             |
| SCOP           | 4.75            | 3.39               |
| Tbiv           | -7 °C           | -7 °C              |
| TOL            | -20 °C          | -20 °C             |
| Pdh Tj = -7°C  | 4.5 kW          | 4.1 kW             |
| COP Tj = -7°C  | 2.92            | 2.04               |
| Cdh Tj = -7 °C | 0.99            | 0.99               |
| Pdh Tj = +2°C  | 2.7 kW          | 2.5 kW             |
| COP Tj = +2°C  | 4.58            | 3.25               |
| Cdh Tj = +2 °C | 0.98            | 0.98               |
| Pdh Tj = +7°C  | 2.6 kW          | 2.6 kW             |
| COP Tj = +7°C  | 6.5             | 4.64               |
| Cdh Tj = +7 °C | 0.96            | 0.97               |



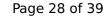


| 2.6 kW      | 2.3 kW   |
|-------------|--|
| 8.97        | 6.57   |
| 0.95        | 0.96   |
| 4.5 kW      | 4.1 kW   |
| 2.92        | 2.04   |
| 4.36 kW     | 4.05 kW  |
| 2.59        | 1.91   |
| 0.991       | 0.993  |
| 60 °C       | 60 °C  |
| 15 W        | 15 W   |
| 15 W        | 15 W   |
| 15 W        | 15 W   |
| o w         | 0 W  |
| Electricity | Electricity  |
| 0.74 kW     | 0.55 kW  |
| 2220 kWh    | 2806 kWh   |
|             | 8.97  0.95  4.5 kW  2.92  4.36 kW  2.59  0.991  60 °C  15 W  15 W  0 W  Electricity  0.74 kW |



| EN 12102-1                |                 |                    |
|---------------------------|-----------------|--------------------|
|                           | Low temperature | Medium temperature |
| Sound power level indoor  | 41 dB(A)        | 41 dB(A)           |
| Sound power level outdoor | 58 dB(A)        | 58 dB(A)           |

| EN 14825                |                 |                    |
|-------------------------|-----------------|--------------------|
|                         | Low temperature | Medium temperature |
| $\eta_{s}$              | 225 %           | 160 %              |
| Prated                  | 5.1 kW          | 4.6 kW             |
| SCOP                    | 5.7             | 4.08               |
| Tbiv                    | 2 °C            | 2 °C               |
| TOL                     | -20 °C          | -20 °C             |
| Pdh Tj = +2°C           | 5.1 kW          | 4.6 kW             |
| COP Tj = +2°C           | 3.13            | 1.85               |
| Cdh Tj = +2 °C          | 0.99            | 0.99               |
| Pdh Tj = $+7^{\circ}$ C | 3.3 kW          | 3 kW               |
| $COP Tj = +7^{\circ}C$  | 5.18            | 3.45               |
| Cdh Tj = +7 °C          | 0.98            | 0.98               |
| Pdh Tj = 12°C           | 1.9 kW          | 1.9 kW             |
| COP Tj = 12°C           | 7.04            | 5.59               |
| Cdh Tj = +12 °C         | 0.94            | 0.96               |





| Pdh Tj = Tbiv                                       | 5.1 kW      | 4.6 kW      |
|---|-------------|-------------|
| COP Tj = Tbiv                                       | 3.13        | 1.85        |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 5.1 kW      | 4.6 kW      |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 3.13        | 1.85        |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.991       | 0.994       |
| 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                          | 0 kW        | 0 kW        |
| Annual energy consumption Qhe                       | 1195 kWh    | 1506 kWh    |
|   |             |             |

### Domestic Hot Water (DHW)



| EN 16147                        |            |  |
|---------------------------------|------------|--|
| Declared load profile           | L          |  |
| Efficiency ηDHW                 | 159 %      |  |
| СОР                             | 3.8        |  |
| Heating up time                 | 2:51 h:min |  |
| Standby power input             | 24 W       |  |
| Reference hot water temperature | 52.5 °C    |  |
| Mixed water at 40°C             | 278        |  |

| EN 16147                        |            |
|---------------------------------|------------|
| Declared load profile           | L          |
| Efficiency ηDHW                 | 173 %      |
| СОР                             | 4.13       |
| Heating up time                 | 2:22 h:min |
| Standby power input             | 22 W       |
| Reference hot water temperature | 52.5 °C    |
| Mixed water at 40°C             | 278        |



## Model: SUZ-SWM40VA + ERSD-M\*D

| Configure model                     |                        |  |
|-------------------------------------|------------------------|--|
| Model name                          | SUZ-SWM40VA + ERSD-M*D |  |
| Application                         | Heating (medium temp)  |  |
| Units                               | Indoor + Outdoor       |  |
| Climate Zone                        | Warmer Climate         |  |
| Reversibility                       | Yes                    |  |
| Cooling mode application (optional) | n/a                    |  |

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

### Heating

| EN 14511-2  |                 |                    |  |
|-------------|-----------------|--------------------|--|
|             | Low temperature | Medium temperature |  |
| Heat output | 4 kW            | 4.5 kW             |  |
| El input    | 0.77 kW         | 1.72 kW            |  |
| СОР         | 5.2             | 2.61               |  |

| 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  | 41 dB(A)        | 41 dB(A)           |
| Sound power level outdoor | 58 dB(A)        | 58 dB(A)           |

| EN 14825                |                 |                    |
|-------------------------|-----------------|--------------------|
|                         | Low temperature | Medium temperature |
| $\eta_{s}$              | 187 %           | 132 %              |
| Prated                  | 5.1 kW          | 4.6 kW             |
| SCOP                    | 4.75            | 3.39               |
| Tbiv                    | -7 °C           | -7 °C              |
| TOL                     | -20 °C          | -20 °C             |
| Pdh Tj = -7°C           | 4.5 kW          | 4.1 kW             |
| COP Tj = $-7$ °C        | 2.92            | 2.04               |
| Cdh Tj = -7 °C          | 0.99            | 0.99               |
| Pdh Tj = $+2$ °C        | 2.7 kW          | 2.5 kW             |
| COP Tj = +2°C           | 4.58            | 3.25               |
| Cdh Tj = +2 °C          | 0.98            | 0.98               |
| Pdh Tj = $+7^{\circ}$ C | 2.6 kW          | 2.6 kW             |
| $COP Tj = +7^{\circ}C$  | 6.5             | 4.64               |
| Cdh Tj = +7 °C          | 0.96            | 0.97               |



| Inis information was genera                         | ted by the HP KETMAR | KK database on 18 Mar 202 |
|---|----------------------|---------------------------|
| Pdh Tj = 12°C                                       | 2.6 kW               | 2.3 kW                    |
| COP Tj = 12°C                                       | 8.97                 | 6.57                      |
| Cdh Tj = +12 °C                                     | 0.95                 | 0.96                      |
| Pdh Tj = Tbiv                                       | 4.5 kW               | 4.1 kW                    |
| COP Tj = Tbiv                                       | 2.92                 | 2.04                      |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 4.36 kW              | 4.05 kW                   |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.59                 | 1.91                      |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.991                | 0.993                     |
| WTOL  | 60 °C                | 60 °C                     |
| Poff  | 15 W                 | 15 W                      |
| РТО   | 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                          | 0.74 kW              | 0.55 kW                   |
| Annual energy consumption Qhe                       | 2220 kWh             | 2806 kWh                  |

### Warmer Climate

CEN heat pump KEYMARK



| EN 12102-1                |                 |                    |
|---------------------------|-----------------|--------------------|
|                           | Low temperature | Medium temperature |
| Sound power level indoor  | 41 dB(A)        | 41 dB(A)           |
| Sound power level outdoor | 58 dB(A)        | 58 dB(A)           |

| EN 14825                |                 |                    |
|-------------------------|-----------------|--------------------|
|                         | Low temperature | Medium temperature |
| $\eta_{s}$              | 225 %           | 160 %              |
| Prated                  | 5.1 kW          | 4.6 kW             |
| SCOP                    | 5.7             | 4.08               |
| Tbiv                    | 2 °C            | 2 °C               |
| TOL                     | -20 °C          | -20 °C             |
| Pdh Tj = +2°C           | 5.1 kW          | 4.6 kW             |
| COP Tj = +2°C           | 3.13            | 1.85               |
| Cdh Tj = +2 °C          | 0.99            | 0.99               |
| Pdh Tj = $+7^{\circ}$ C | 3.3 kW          | 3 kW               |
| $COP Tj = +7^{\circ}C$  | 5.18            | 3.45               |
| Cdh Tj = +7 °C          | 0.98            | 0.98               |
| Pdh Tj = 12°C           | 1.9 kW          | 1.9 kW             |
| COP Tj = 12°C           | 7.04            | 5.59               |
| Cdh Tj = +12 °C         | 0.94            | 0.96               |



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

| Pdh Tj = Tbiv                                       | 5.1 kW      | 4.6 kW      |
|---|-------------|-------------|
| COP Tj = Tbiv                                       | 3.13        | 1.85        |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 5.1 kW      | 4.6 kW      |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 3.13        | 1.85        |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.991       | 0.994       |
| 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                          | 0 kW        | 0 kW        |
| Annual energy consumption Qhe                       | 1195 kWh    | 1506 kWh    |



## Model: SUZ-SWM40VA + ERSD-\*M\*D

| Configure model                     |                         |  |
|-------------------------------------|-------------------------|--|
| Model name                          | SUZ-SWM40VA + ERSD-*M*D |  |
| Application                         | Heating (medium temp)   |  |
| Units                               | Indoor + Outdoor        |  |
| Climate Zone                        | Warmer Climate          |  |
| Reversibility                       | Yes                     |  |
| Cooling mode application (optional) | n/a                     |  |

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

### Heating

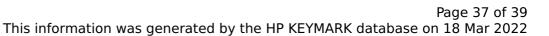
| EN 14511-2  |                 |                    |
|-------------|-----------------|--------------------|
|             | Low temperature | Medium temperature |
| Heat output | 4 kW            | 4.5 kW             |
| El input    | 0.77 kW         | 1.72 kW            |
| СОР         | 5.2             | 2.61               |

| 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  | 41 dB(A)        | 41 dB(A)           |
| Sound power level outdoor | 58 dB(A)        | 58 dB(A)           |

| EN 14825                |                 |                    |
|-------------------------|-----------------|--------------------|
|                         | Low temperature | Medium temperature |
| $\eta_{s}$              | 187 %           | 132 %              |
| Prated                  | 5.1 kW          | 4.6 kW             |
| SCOP                    | 4.75            | 3.39               |
| Tbiv                    | -7 °C           | -7 °C              |
| TOL                     | -20 °C          | -20 °C             |
| Pdh Tj = -7°C           | 4.5 kW          | 4.1 kW             |
| COP Tj = $-7$ °C        | 2.92            | 2.04               |
| Cdh Tj = -7 °C          | 0.99            | 0.99               |
| Pdh Tj = $+2$ °C        | 2.7 kW          | 2.5 kW             |
| COP Tj = +2°C           | 4.58            | 3.25               |
| Cdh Tj = +2 °C          | 0.98            | 0.98               |
| Pdh Tj = $+7^{\circ}$ C | 2.6 kW          | 2.6 kW             |
| $COP Tj = +7^{\circ}C$  | 6.5             | 4.64               |
| Cdh Tj = +7 °C          | 0.96            | 0.97               |





| Pdh Tj = 12°C                                       | 2.6 kW      | 2.3 kW      |
|---|-------------|-------------|
| COP Tj = 12°C                                       | 8.97        | 6.57        |
| Cdh Tj = +12 °C                                     | 0.95        | 0.96        |
| Pdh Tj = Tbiv                                       | 4.5 kW      | 4.1 kW      |
| COP Tj = Tbiv                                       | 2.92        | 2.04        |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 4.36 kW     | 4.05 kW     |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.59        | 1.91        |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.991       | 0.993       |
| 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                          | 0.74 kW     | 0.55 kW     |
| Annual energy consumption Qhe                       | 2220 kWh    | 2806 kWh    |
|   |             |             |



| EN 12102-1                |                 |                    |  |  |
|---------------------------|-----------------|--------------------|--|--|
|                           | Low temperature | Medium temperature |  |  |
| Sound power level indoor  | 41 dB(A)        | 41 dB(A)           |  |  |
| Sound power level outdoor | 58 dB(A)        | 58 dB(A)           |  |  |

| EN 14825                |                 |                    |  |  |
|-------------------------|-----------------|--------------------|--|--|
|                         | Low temperature | Medium temperature |  |  |
| $\eta_{s}$              | 225 %           | 160 %              |  |  |
| Prated                  | 5.1 kW          | 4.6 kW             |  |  |
| SCOP                    | 5.7             | 4.08               |  |  |
| Tbiv                    | 2 °C            | 2 °C               |  |  |
| TOL                     | -20 °C          | -20 °C             |  |  |
| Pdh Tj = +2°C           | 5.1 kW          | 4.6 kW             |  |  |
| COP Tj = +2°C           | 3.13            | 1.85               |  |  |
| Cdh Tj = +2 °C          | 0.99            | 0.99               |  |  |
| Pdh Tj = $+7^{\circ}$ C | 3.3 kW          | 3 kW               |  |  |
| $COP Tj = +7^{\circ}C$  | 5.18            | 3.45               |  |  |
| Cdh Tj = +7 °C          | 0.98            | 0.98               |  |  |
| Pdh Tj = 12°C           | 1.9 kW          | 1.9 kW             |  |  |
| COP Tj = 12°C           | 7.04            | 5.59               |  |  |
| Cdh Tj = +12 °C         | 0.94            | 0.96               |  |  |



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

| Pdh Tj = Tbiv                                       | 5.1 kW      | 4.6 kW      |
|---|-------------|-------------|
| COP Tj = Tbiv                                       | 3.13        | 1.85        |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 5.1 kW      | 4.6 kW      |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 3.13        | 1.85        |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.991       | 0.994       |
| 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                          | 0 kW        | 0 kW        |
| Annual energy consumption Qhe                       | 1195 kWh    | 1506 kWh    |