| Summary of | MHC-V5W/D2N8, V7W/D2N8, V9W/D2N8 | Reg. No. | ICIM-PDC-000057-00 |
|---|---|---|---|
| Certificate Holder | | | |
| Name | GD Midea Heating & Ventilating Equipment Co., Ltd. | | |
| Address | Penglai Industry Road | Zip | 528311 |
| City | Beijiao, Shunde, Foshan | Country | China |
| Certification Body | ICIM S.p.A. | | |
| Name of testing laboratory | OBL products - ReLab Politecnico Milano | | |
| Subtype title | MHC-V5W/D2N8, V7W/D2N8, V9W/D2N8 | | |
| Heat Pump Type | Outdoor Air/Water | | |
| Refrigerant | R32 | | |
| Mass Of Refrigerant | 2 kg | | |
| Certification Date | 17.01.2020 | | |
| Testing basis | EN 14511:2013, EN 14825:2016, EN 12102:2013 | | |

# Model: MHC-V5W/D2N8

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

## Heating

| EN 14511-4 | |
|---|---|
| | |
| Operating range outdoor exchanger/indoor exchanger lower limit/lower limit | passed |
| Operating range outdoor exchanger/indoor exchanger upper limit/upper limit | passed |
| Shutting off the heat transfer medium flow | passed |
| Complete power supply failure | passed |
| Defrost test | passed |

| EN 14511-2 | | |
|---|---|---|
| | **Low temperature** | **Medium temperature** |
| Heat output | 4.65 kW | 4.65 kW |
| El input | 0.93 kW | 1.77 kW |
| COP | 5.00 | 2.63 |
| Indoor water flow rate | 0.80 m³/h | 0.50 m³/h |

## Average Climate

| EN 14825 |
|---|

| | **Low temperature** | **Medium temperature** |
|---|---|---|
| $\eta_s$ | 176 % | 127 % |
| Prated | 7.00 kW | 7.00 kW |
| SCOP | 4.47 | 3.24 |
| Tbiv | -7 °C | -7 °C |
| TOL | -10 °C | -10 °C |
| Pdh Tj = -7°C | 5.88 kW | 5.83 kW |
| COP Tj = -7°C | 2.91 | 1.97 |
| Cdh | 0.90 | 0.90 |
| Pdh Tj = +2°C | 3.64 kW | 3.68 kW |
| COP Tj = +2°C | 4.38 | 3.22 |
| Cdh | 0.90 | 0.90 |
| Pdh Tj = +7°C | 2.42 kW | 2.47 kW |
| COP Tj = +7°C | 5.89 | 4.21 |
| Cdh | 0.90 | 0.90 |
| Pdh Tj = 12°C | 1.03 kW | 1.26 kW |
| COP Tj = 12°C | 5.89 | 4.91 |
| Cdh | 0.90 | 0.90 |
| Pdh Tj = Tbiv | 5.88 kW | 5.83 kW |
| COP Tj = Tbiv | 2.91 | 1.97 |
| Pdh Tj = TOL | 6.62 kW | 5.86 kW |

| | | |
|---|---|---|
| COP Tj = TOL | 2.63 | 1.62 |
| Cdh | 0.90 | 0.90 |
| WTOL | 60 °C | 60 °C |
| Poff | 9 W | 9 W |
| PTO | 9 W | 9 W |
| PSB | 9 W | 9 W |
| PCK | 0 W | 0 W |
| Supplementary Heater: Type of energy input | electric | electric |
| Supplementary Heater: PSUP | 0.00 kW | 0.70 kW |
| Annual energy consumption Qhe | 3071 kWh | 4203 kWh |

| **EN 12102-1** | | |
|---|---|---|
| | **Low temperature** | **Medium temperature** |
| Sound power level indoor | dB(A) | dB(A) |
| Sound power level outdoor | 61 dB(A) | 61 dB(A) |

# Model: MHC-V7W/D2N8

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

## Heating

| EN 14511-4 | |
|---|---|
| | |
| Operating range outdoor exchanger/indoor exchanger lower limit/lower limit | passed |
| Operating range outdoor exchanger/indoor exchanger upper limit/upper limit | passed |
| Shutting off the heat transfer medium flow | passed |
| Complete power supply failure | passed |
| Defrost test | passed |

| EN 14511-2 | | |
|---|---|---|
| | **Low temperature** | **Medium temperature** |
| Heat output | 6.65 kW | 6.80 kW |
| El input | 1.35 kW | 2.42 kW |
| COP | 4.94 | 2.81 |
| Indoor water flow rate | 1.14 m³/h | 0.73 m³/h |

## Average Climate

| EN 14825 |
|---|

| | **Low temperature** | **Medium temperature** |
|---|---|---|
| $\eta_s$ | 176 % | 127 % |
| Prated | 7.00 kW | 7.00 kW |
| SCOP | 4.47 | 3.24 |
| Tbiv | -7 °C | -7 °C |
| TOL | -10 °C | -10 °C |
| Pdh Tj = -7°C | 5.88 kW | 5.83 kW |
| COP Tj = -7°C | 2.91 | 1.97 |
| Cdh | 0.90 | 0.90 |
| Pdh Tj = +2°C | 3.64 kW | 3.68 kW |
| COP Tj = +2°C | 4.38 | 3.22 |
| Cdh | 0.90 | 0.90 |
| Pdh Tj = +7°C | 2.42 kW | 2.47 kW |
| COP Tj = +7°C | 5.89 | 4.21 |
| Cdh | 0.90 | 0.90 |
| Pdh Tj = 12°C | 1.03 kW | 1.26 kW |
| COP Tj = 12°C | 5.89 | 4.91 |
| Cdh | 0.90 | 0.90 |
| Pdh Tj = Tbiv | 5.88 kW | 5.83 kW |
| COP Tj = Tbiv | 2.91 | 1.97 |
| Pdh Tj = TOL | 6.62 kW | 5.86 kW |

| | | |
|---|---|---|
| COP Tj = TOL | 2.63 | 1.62 |
| Cdh | 0.90 | 0.90 |
| WTOL | 60 °C | 60 °C |
| Poff | 9 W | 9 W |
| PTO | 6 W | 6 W |
| PSB | 9 W | 9 W |
| PCK | 0 W | 0 W |
| Supplementary Heater: Type of energy input | electric | electric |
| Supplementary Heater: PSUP | 0.00 kW | 0.70 kW |
| Annual energy consumption Qhe | 3701 kWh | 4203 kWh |

| **EN 12102-1** | | |
|---|---|---|
| | **Low temperature** | **Medium temperature** |
| Sound power level indoor | dB(A) | dB(A) |
| Sound power level outdoor | 64 dB(A) | 64 dB(A) |

# Model: MHC-V9W/D2N8

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

## Heating

| EN 14511-4 | |
|---|---|
| | |
| Operating range outdoor exchanger/indoor exchanger lower limit/lower limit | passed |
| Operating range outdoor exchanger/indoor exchanger upper limit/upper limit | passed |
| Shutting off the heat transfer medium flow | passed |
| Complete power supply failure | passed |
| Defrost test | passed |

| EN 14511-2 | | |
|---|---|---|
| | **Low temperature** | **Medium temperature** |
| Heat output | 8.60 kW | 8.60 kW |
| El input | 1.87 kW | 3.12 kW |
| COP | 4.60 | 2.75 |
| Indoor water flow rate | 1.48 m³/h | 0.92 m³/h |

## Average Climate

| EN 14825 |
|---|

| | **Low temperature** | **Medium temperature** |
|---|---|---|
| $\eta_s$ | 177 % | 126 % |
| Prated | 8.00 kW | 7.00 kW |
| SCOP | 4.51 | 3.22 |
| Tbiv | -7 °C | -7 °C |
| TOL | -10 °C | -10 °C |
| Pdh Tj = -7°C | 7.42 kW | 6.58 kW |
| COP Tj = -7°C | 2.80 | 1.87 |
| Cdh | 0.90 | 0.90 |
| Pdh Tj = +2°C | 4.83 kW | 4.25 kW |
| COP Tj = +2°C | 4.33 | 3.19 |
| Cdh | 0.90 | 0.90 |
| Pdh Tj = +7°C | 3.20 kW | 2.80 kW |
| COP Tj = +7°C | 6.20 | 4.38 |
| Cdh | 0.90 | 0.90 |
| Pdh Tj = 12°C | 1.55 kW | 1.27 kW |
| COP Tj = 12°C | 7.61 | 5.04 |
| Cdh | 0.90 | 0.90 |
| Pdh Tj = Tbiv | 7.42 kW | 6.58 kW |
| COP Tj = Tbiv | 2.80 | 1.87 |
| Pdh Tj = TOL | 6.64 kW | 5.53 kW |

| | | |
|---|---|---|
| COP Tj = TOL | 2.54 | 1.51 |
| Cdh | 0.90 | 0.90 |
| WTOL | 60 °C | 60 °C |
| Poff | 9 W | 9 W |
| PTO | 10 W | 10 W |
| PSB | 9 W | 9 W |
| PCK | 0 W | 0 W |
| Supplementary Heater: Type of energy input | electric | electric |
| Supplementary Heater: PSUP | 1.80 kW | 1.80 kW |
| Annual energy consumption Qhe | 3844 kWh | 4770 kWh |

| **EN 12102-1** | | |
|---|---|---|
| | **Low temperature** | **Medium temperature** |
| Sound power level indoor | dB(A) | dB(A) |
| Sound power level outdoor | 67 dB(A) | 67 dB(A) |