



ENERG
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Y IJA
IE IA

Midea

MGC-V7WD2N8-B



55°C

35°C



A ++

A +++



-- dB



63dB

6
7
8
kW

7
8
8
kW



2019

811/2013

Temperature application

| Model | For medium - temperature application | | | | | | | | | | |
|---------------|--------------------------------------|------------------|-------------------|--|---|-------------------|--|---|-------------------|--|---|
| | Energy efficiency class | Unit sound power | average climate | | | colder climate | | | warmer climate | | |
| | | | Rated heat output | Seasonal space heating energy efficiency | For space heating annual energy consumption | Rated heat output | Seasonal space heating energy efficiency | For space heating annual energy consumption | Rated heat output | Seasonal space heating energy efficiency | For space heating annual energy consumption |
| | - | dB | kW | % | kWh | kW | % | kWh | kW | % | kWh |
| MGC-V7WD2N8-B | A++ | 63 | 7.3 | 143.6 | 4088 | 6.1 | 117.7 | 4948 | 7.9 | 186.7 | 2231 |

| Model | For low - temperature application | | | | | | | | | | |
|---------------|-----------------------------------|------------------|-------------------|--|---|-------------------|--|---|-------------------|--|---|
| | Energy efficiency class | Unit sound power | average climate | | | colder climate | | | warmer climate | | |
| | | | Rated heat output | Seasonal space heating energy efficiency | For space heating annual energy consumption | Rated heat output | Seasonal space heating energy efficiency | For space heating annual energy consumption | Rated heat output | Seasonal space heating energy efficiency | For space heating annual energy consumption |
| | - | dB | kW | % | kWh | kW | % | kWh | kW | % | kWh |
| MGC-V7WD2N8-B | A+++ | 63 | 7.9 | 204.0 | 3155 | 7.5 | 174.6 | 4166 | 8.1 | 274.7 | 1551 |

| Mini Inverter heat pump space heating | | Outdoor | MGC-V7WD2N8-B |
|--|--|---------|---------------|
| Outdoor unit sound power (*) | Average climate low temperature application | dB | 63 |
| | Average climate medium temperature application | dB | 63 |
| Space heating | Energy efficiency class 35°C (Low temp. app.) | - | A+++ |
| Space heating | Energy efficiency class 55°C (Medium temp. app.) | - | A++ |
| Average climate (Design temperature = -10°C) | | | |
| Space heating 35°C | Prated (declared heating capacity) @ -10°C | [kW] | 7.9 |
| | Seasonal space heating efficiency (η_s) | [%] | 204.0 |
| | Annual energy consumption | [kWh] | 3,155 |
| Space heating 55°C | Prated (declared heating capacity) @ -10°C | [kW] | 7.3 |
| | Seasonal space heating efficiency (η_s) | [%] | 143.6 |
| | Annual energy consumption | [kWh] | 4,088 |
| Part load conditions space heating average climate low temperature application | | | |
| (A) condition (-7°C) | Pdh (declared heating capacity) | [kW] | 6.99 |
| | COPd (declared COP) | - | 3.29 |
| | Cdh(degradation coefficient) | - | 0.90 |
| (B) condition (2°C) | Pdh (declared heating capacity) | [kW] | 4.51 |
| | COPd (declared COP) | - | 4.99 |
| | Cdh(degradation coefficient) | - | 0.90 |
| (C) condition (7°C) | Pdh (declared heating capacity) | [kW] | 2.81 |
| | COPd (declared COP) | - | 6.72 |
| | Cdh(degradation coefficient) | - | 0.90 |
| (D) condition (12°C) | Pdh (declared heating capacity) | [kW] | 1.87 |
| | COPd (declared COP) | - | 9.12 |
| | Cdh(degradation coefficient) | - | 0.90 |
| (E) Tol (temperature operating limit) | Tol (temperature operating limit) | [°C] | -10.00 |
| | Pdh (declared heating capacity) | [kW] | 7.46 |
| | COPd (declared COP) | - | 2.87 |
| | WTOL (Heating water Operation Limit) | [°C] | 65 |

| Mini Inverter heat pump space heating | | Outdoor | MGC-V7WD2N8-B |
|---|--|---------|---------------|
| (F) Tbivalent temperature | Tblv | [°C] | -7.00 |
| | Pdh (declared heating capacity) | [kW] | 6.99 |
| | COPd (declared COP) | - | 3.29 |
| Supplementary capacity at P_design | Psup (@Tdesignh: -10°C) | [kW] | 0.44 |
| Part load conditions space heating average climate medium temperature application | | | |
| (A) condition (-7°C) | Pdh (declared heating capacity) | [kW] | 6.42 |
| | COPd (declared COP) | - | 2.31 |
| | Cdh(degradation coefficient) | - | 0.90 |
| (B) condition (2°C) | Pdh (declared heating capacity) | [kW] | 4.03 |
| | COPd (declared COP) | - | 3.76 |
| | Cdh(degradation coefficient) | - | 0.90 |
| (C) condition (7°C) | Pdh (declared heating capacity) | [kW] | 2.56 |
| | COPd (declared COP) | - | 4.48 |
| | Cdh(degradation coefficient) | - | 0.90 |
| (D) condition (12°C) | Pdh (declared heating capacity) | [kW] | 1.31 |
| | COPd (declared COP) | - | 4.96 |
| | Cdh(degradation coefficient) | - | 0.90 |
| (E) Tol (temperature operating limit) | Tol (temperature operating limit) | [°C] | -10.00 |
| | Pdh (declared heating capacity) | [kW] | 6.85 |
| | COPd (declared COP) | - | 1.98 |
| | WTOL (Heating water Operation Limit) | [°C] | 65 |
| (F) Tbivalent temperature | Tblv | [°C] | -7.00 |
| | Pdh (declared heating capacity) | [kW] | 6.42 |
| | COPd (declared COP) | - | 2.31 |
| Supplementary capacity at P_design | Psup (@Tdesignh: -10°C) | [kW] | 0.40 |
| Colder climate (Design temperature = -22°C) | | | |
| Space heating 35°C | Prated (declared heating capacity) @ -22°C | [kW] | 7.5 |
| | Seasonal space heating efficiency (ηs) | [%] | 174.6 |
| | Annual energy consumption | [kWh] | 4,166 |

| Mini Inverter heat pump space heating | | Outdoor | MGC-V7WD2N8-B |
|--|--|---------|---------------|
| Space heating 55°C | Prated (declared heating capacity) @ -22°C | [kW] | 6.1 |
| | Seasonal space heating efficiency (η_s) | [%] | 117.7 |
| | Annual energy consumption | [kWh] | 4,948 |
| Part load conditions space heating colder climate low temperature application | | | |
| (A) condition (-7°C) | Pdh (declared heating capacity) | [kW] | 4.42 |
| | COPd (declared COP) | - | 3.67 |
| | Cdh(degradation coefficient) | - | 0.90 |
| (B) condition (2°C) | Pdh (declared heating capacity) | [kW] | 2.99 |
| | COPd (declared COP) | - | 5.50 |
| | Cdh(degradation coefficient) | - | 0.90 |
| (C) condition (7°C) | Pdh (declared heating capacity) | [kW] | 2.03 |
| | COPd (declared COP) | - | 6.69 |
| | Cdh(degradation coefficient) | - | 0.90 |
| (D) condition (12°C) | Pdh (declared heating capacity) | [kW] | 1.87 |
| | COPd (declared COP) | - | 9.12 |
| | Cdh(degradation coefficient) | - | 0.90 |
| (E) Tol (temperature operating limit) | Tol (temperature operating limit) | [°C] | -22.00 |
| | Pdh (declared heating capacity) | [kW] | 4.78 |
| | COPd (declared COP) | - | 2.16 |
| | WTOL (Heating water Operation Limit) | [°C] | 65 |
| (F) Tbivalent temperature | Tblv | [°C] | -15.00 |
| | Pdh (declared heating capacity) | [kW] | 6.12 |
| | COPd (declared COP) | - | 2.70 |
| Supplementary capacity at P_design | Psup (@Tdesignh: -22°C) | [kW] | 2.72 |
| Part load conditions space heating colder climate medium temperature application | | | |
| (A) condition (-7°C) | Pdh (declared heating capacity) | [kW] | 3.95 |
| | COPd (declared COP) | - | 2.75 |
| | Cdh(degradation coefficient) | - | 0.90 |

| Mini Inverter heat pump space heating | | Outdoor | MGC-V7WD2N8-B |
|---|--|---------|---------------|
| (B) condition (2°C) | Pdh (declared heating capacity) | [kW] | 2.25 |
| | COPd (declared COP) | - | 3.30 |
| | Cdh(degradation coefficient) | - | 0.90 |
| (C) condition (7°C) | Pdh (declared heating capacity) | [kW] | 1.56 |
| | COPd (declared COP) | - | 4.50 |
| | Cdh(degradation coefficient) | - | 0.90 |
| (D) condition (12°C) | Pdh (declared heating capacity) | [kW] | 1.44 |
| | COPd (declared COP) | - | 5.83 |
| | Cdh(degradation coefficient) | - | 0.90 |
| (E) Tol (temperature operating limit) | Tol (temperature operating limit) | [°C] | -22.00 |
| | Pdh (declared heating capacity) | [kW] | 3.24 |
| | COPd (declared COP) | - | 1.32 |
| | WTOL (Heating water Operation Limit) | [°C] | 65 |
| (F) Tbivalent temperature | Tblv | [°C] | -15.00 |
| | Pdh (declared heating capacity) | [kW] | 4.94 |
| | COPd (declared COP) | - | 2.08 |
| Supplementary capacity at P_design | Psup (@Tdesignh: -22°C) | [kW] | 2.82 |
| Warmer climate (Design temperature = 2°C) | | | |
| Space heating 35°C | Prated (declared heating capacity) @ 2°C | [kW] | 8.1 |
| | Seasonal space heating efficiency (ηs) | [%] | 274.7 |
| | Annual energy consumption | [kWh] | 1,551 |
| Space heating 55°C | Prated (declared heating capacity) @ 2°C | [kW] | 7.9 |
| | Seasonal space heating efficiency (ηs) | [%] | 186.7 |
| | Annual energy consumption | [kWh] | 2,231 |
| Part load conditions space heating warmer climate low temperature application | | | |
| (B) condition (2°C) | Pdh (declared heating capacity) | [kW] | 7.23 |
| | COPd (declared COP) | - | 4.04 |
| | Cdh(degradation coefficient) | - | 0.90 |
| (C) condition (7°C) | Pdh (declared heating capacity) | [kW] | 5.18 |
| | COPd (declared COP) | - | 6.35 |
| | Cdh(degradation coefficient) | - | 0.90 |

| Mini Inverter heat pump space heating | | Outdoor | MGC-V7WD2N8-B |
|--|--------------------------------------|---------|---------------|
| (D) condition (12°C) | Pdh (declared heating capacity) | [kW] | 2.46 |
| | COPd (declared COP) | - | 9.30 |
| | Cdh(degradation coefficient) | - | 0.90 |
| (E) Tol (temperature operating limit) | Tol (temperature operating limit) | [°C] | 2.00 |
| | Pdh (declared heating capacity) | [kW] | 7.23 |
| | COPd (declared COP) | - | 4.04 |
| | WTOL (Heating water Operation Limit) | [°C] | 65 |
| (F) Tbivalent temperature | Tblv | [°C] | 7.00 |
| | Pdh (declared heating capacity) | [kW] | 5.18 |
| | COPd (declared COP) | - | 6.35 |
| Supplementary capacity at P_design | Psup (@Tdesignh: 2°C) | [kW] | 0.84 |
| Part load conditions space heating warmer climate medium temperature application | | | |
| (B) condition (2°C) | Pdh (declared heating capacity) | [kW] | 7.80 |
| | COPd (declared COP) | - | 2.68 |
| | Cdh(degradation coefficient) | - | 0.90 |
| (C) condition (7°C) | Pdh (declared heating capacity) | [kW] | 5.09 |
| | COPd (declared COP) | - | 4.07 |
| | Cdh(degradation coefficient) | - | 0.90 |
| (D) condition (12°C) | Pdh (declared heating capacity) | [kW] | 2.36 |
| | COPd (declared COP) | - | 6.07 |
| | Cdh(degradation coefficient) | - | 0.90 |
| (E) Tol (temperature operating limit) | Tol (temperature operating limit) | [°C] | 2.00 |
| | Pdh (declared heating capacity) | [kW] | 7.80 |
| | COPd (declared COP) | - | 2.68 |
| | WTOL (Heating water Operation Limit) | [°C] | 65 |
| (F) Tbivalent temperature | Tblv | [°C] | 7.00 |
| | Pdh (declared heating capacity) | [kW] | 5.09 |
| | COPd (declared COP) | - | 4.07 |
| Supplementary capacity at P_design | Psup (@Tdesignh: 2°C) | [kW] | 0.12 |

| Mini Inverter heat pump space heating | | Outdoor | MGC-V7WD2N8-B |
|--|---|---------------------|---------------|
| Product description | Air-to-water heat pump | Y/N | Yes |
| | Water-to-water heat pump | Y/N | No |
| | Brine-to-water heat pump | Y/N | No |
| | Low-temperature heat pump | Y/N | No |
| | Equipped with a supplementary heater | Y/N | Yes |
| | Heat pump combination heater | Y/N | Yes |
| Air to water unit | Rated airflow (outdoor) | [m ³ /h] | 4500 |
| Brine/water to water unit | Rated water/brine flow (outdoor H/E) | | / |
| Other | Capacity control | - | Inverter |
| | Poff (Power consumption Off mode) | [kW] | 0.013 |
| | Pto (Power consumption Thermostat off mode) | [kW] | 0.020 |
| | Psb (Power consumption Standby mode) | [kW] | 0.013 |
| | PCK (Power crankcase heater model) | [kW] | 0.000 |
| | Qelec (Daily electricity consumption) | [kWh] | / |
| | Qfuel (Daily fuel consumption) | [kWh] | / |
| <p>Note :</p> <p>Product fiche data according to energy label directive 2010/30/EC regulation (EU) 811/2013.</p> <p>Sound power measured according to the EN12102 under conditions of the EN14825.</p> <p>Details and precautions on installation, maintenance and assembly can be found in the installation and or operation manuals.</p> | | | |

| Mini Inverter heat pump space cooling | | Outdoor | MGC-V7WD2N8-B |
|--|--|---------|---------------|
| Outdoor unit sound power (*) | Average climate low temperature application | dB | 64 |
| | Average climate medium temperature application | dB | 64 |
| Space cooling 7°C | Prated (declared cooling capacity) @ 35°C | [kW] | 7.4 |
| | Seasonal space cooling efficiency (η_s) | [%] | 204.71 |
| | Annual energy consumption | [kWh] | 854 |
| Space cooling 18°C | Prated (declared cooling capacity) @ 35°C | [kW] | 8.6 |
| | Seasonal space cooling efficiency (η_s) | [%] | 320.48 |
| | Annual energy consumption | [kWh] | 635 |
| Part load conditions space cooling : low temperature application@7°C | | | |
| (A) condition (35°C) | Pdc (declared cooling capacity) | [kW] | 7.39 |
| | EERd (declared EER) | - | 3.28 |
| | Cdc(degradation coefficient) | - | 0.90 |
| (B) condition (30°C) | Pdc (declared cooling capacity) | [kW] | 5.63 |
| | EERd (declared EER) | - | 4.54 |
| | Cdc(degradation coefficient) | - | 0.90 |
| (C) condition (25°C) | Pdc (declared cooling capacity) | [kW] | 3.60 |
| | EERd (declared EER) | - | 5.87 |
| | Cdc(degradation coefficient) | - | 0.90 |
| (D) condition (20°C) | Pdc (declared cooling capacity) | [kW] | 1.74 |
| | EERd (declared EER) | - | 6.51 |
| | Cdc(degradation coefficient) | - | 0.90 |

| Mini Inverter heat pump space cooling | | Outdoor | MGC-V7WD2N8-B |
|--|---|---------------------|---------------|
| Part load conditions space cooling : medium temperature application@18°C | | | |
| (A) condition (35°C) | Pdc (declared cooling capacity) | [kW] | 8.55 |
| | EERd (declared EER) | - | 4.99 |
| | Cdc(degradation coefficient) | - | 0.90 |
| (B) condition (30°C) | Pdc (declared cooling capacity) | [kW] | 6.66 |
| | EERd (declared EER) | - | 6.56 |
| | Cdc(degradation coefficient) | - | 0.90 |
| (C) condition (25°C) | Pdc (declared cooling capacity) | [kW] | 4.51 |
| | EERd (declared EER) | - | 9.48 |
| | Cdc(degradation coefficient) | - | 0.90 |
| (D) condition (20°C) | Pdc (declared cooling capacity) | [kW] | 1.96 |
| | EERd (declared EER) | - | 11.08 |
| | Cdc(degradation coefficient) | - | 0.90 |
| Air to water unit | Rated airflow (outdoor) | [m ³ /h] | 4500 |
| Brine/water to water unit | Rated water/brine flow (outdoor H/E) | - | / |
| Other | Capacity control | - | Inverter |
| | Poff (Power consumption Off mode) | [kW] | 0.013 |
| | Pto (Power consumption Thermostat off mode) | [kW] | 0.005 |
| | Psb (Power consumption Standby mode) | [kW] | 0.013 |
| | Pck (Power crankcase heater mode) | [kW] | 0.000 |
| | Qelec (Daily electricity consumption) | [kWh] | / |
| | Qfuel (Daily fuel consumption) | [kWh] | / |

| Outdoor unit | Ambient Temperature: 35/24 Water temperature: 23/18 | | | Ambient Temperature: 35/24 Water temperature: 12/7 | | | Ambient Temperature: 7/6 Water temperature: 30/35 | | | Ambient Temperature: 2/1 Water temperature: 30/35 | | |
|---------------|--|-------------------|------|---|-------------------|------|--|-------------------|------|--|-------------------|------|
| | Capacity kW | Power input kW | EER | Capacity kW | Power input kW | EER | Capacity kW | Power input kW | COP | Capacity kW | Power input kW | COP |
| MGC-V7WD2N8-B | 8.30 | 1.711 | 4.85 | 7.40 | 2.349 | 3.15 | 8.40 | 1.663 | 5.05 | 7.10 | 1.797 | 3.95 |

| Outdoor unit | Ambient Temperature: -7/-8 Water temperature: 30/35 | | | Ambient Temperature: 7/6 Water temperature: 40/45 | | | Ambient Temperature: 2/1 Water temperature: 40/45 | | | Ambient Temperature: -7/-8 Water temperature: 40/45 | | |
|---------------|--|-------------------|------|--|-------------------|------|--|-------------------|------|--|-------------------|------|
| | Capacity kW | Power input kW | COP | Capacity kW | Power input kW | COP | Capacity kW | Power input kW | COP | Capacity kW | Power input kW | COP |
| MGC-V7WD2N8-B | 7.10 | 2.254 | 3.15 | 8.50 | 2.237 | 3.80 | 7.50 | 2.459 | 3.05 | 6.80 | 2.720 | 2.50 |

| Outdoor unit | Ambient Temperature: 7/6 Water temperature: 47/55 | | | Ambient Temperature: 2/1 Water temperature: 47/55 | | | Ambient Temperature: -7/-8 Water temperature: 47/55 | | |
|---------------|--|-------------------|------|--|-------------------|------|--|-------------------|------|
| | Capacity kW | Power input kW | COP | Capacity kW | Power input kW | COP | Capacity kW | Power input kW | COP |
| MGC-V7WD2N8-B | 8.20 | 2.603 | 3.15 | 7.60 | 2.815 | 2.70 | 6.60 | 3.143 | 2.10 |