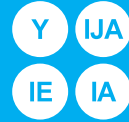




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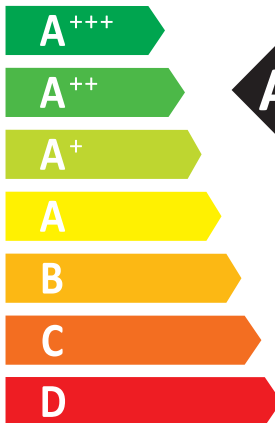
Midea

MGC-V12WD2N8-B



55°C

35°C



A ++

A +++



-- dB



70dB

■ 11
■ 12
■ 12
kW

■ 12
■ 12
■ 12
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-V12WD2N8-B | A++ | 70 | 12.5 | 141.6 | 7148 | 11.3 | 126.0 | 8628 | 12.0 | 179.0 | 3524 |

| 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-V12WD2N8-B | A+++ | 70 | 12.3 | 200.1 | 5004 | 12.5 | 168.8 | 7153 | 12.1 | 262.3 | 2437 |

| Mini Inverter heat pump space heating | | Outdoor | MGC-V12WD2N8-B |
|--|--|---------|----------------|
| Outdoor unit sound power (*) | Average climate low temperature application | dB | 70 |
| | Average climate medium temperature application | dB | 70 |
| 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] | 12.3 |
| | Seasonal space heating efficiency (η_s) | [%] | 200.1 |
| | Annual energy consumption | [kWh] | 5,004 |
| Space heating 55°C | Prated (declared heating capacity) @ -10°C | [kW] | 12.5 |
| | Seasonal space heating efficiency (η_s) | [%] | 141.6 |
| | Annual energy consumption | [kWh] | 7,148 |
| Part load conditions space heating average climate low temperature application | | | |
| (A) condition (-7°C) | Pdh (declared heating capacity) | [kW] | 10.85 |
| | COPd (declared COP) | - | 3.11 |
| | Cdh(degradation coefficient) | - | 0.90 |
| (B) condition (2°C) | Pdh (declared heating capacity) | [kW] | 6.79 |
| | COPd (declared COP) | - | 4.86 |
| | Cdh(degradation coefficient) | - | 0.90 |
| (C) condition (7°C) | Pdh (declared heating capacity) | [kW] | 4.79 |
| | COPd (declared COP) | - | 6.98 |
| | Cdh(degradation coefficient) | - | 0.90 |
| (D) condition (12°C) | Pdh (declared heating capacity) | [kW] | 3.73 |
| | COPd (declared COP) | - | 9.02 |
| | Cdh(degradation coefficient) | - | 0.90 |
| (E) Tol (temperature operating limit) | Tol (temperature operating limit) | [°C] | -10.00 |
| | Pdh (declared heating capacity) | [kW] | 12.30 |
| | COPd (declared COP) | - | 2.80 |
| | WTOL (Heating water Operation Limit) | [°C] | 65 |

| Mini Inverter heat pump space heating | | Outdoor | MGC-V12WD2N8-B |
|---|--|---------|----------------|
| (F) Tbivalent temperature | Tblv | [°C] | -7.00 |
| | Pdh (declared heating capacity) | [kW] | 10.85 |
| | COPd (declared COP) | - | 3.11 |
| Supplementary capacity at P_design | Psup (@Tdesignh: –10°C) | [kW] | 0.00 |
| Part load conditions space heating average climate medium temperature application | | | |
| (A) condition (-7°C) | Pdh (declared heating capacity) | [kW] | 11.06 |
| | COPd (declared COP) | - | 2.15 |
| | Cdh(degradation coefficient) | - | 0.90 |
| (B) condition (2°C) | Pdh (declared heating capacity) | [kW] | 6.91 |
| | COPd (declared COP) | - | 3.59 |
| | Cdh(degradation coefficient) | - | 0.90 |
| (C) condition (7°C) | Pdh (declared heating capacity) | [kW] | 4.64 |
| | COPd (declared COP) | - | 5.07 |
| | Cdh(degradation coefficient) | - | 0.90 |
| (D) condition (12°C) | Pdh (declared heating capacity) | [kW] | 2.15 |
| | COPd (declared COP) | - | 4.52 |
| | Cdh(degradation coefficient) | - | 0.90 |
| (E) Tol (temperature operating limit) | Tol (temperature operating limit) | [°C] | -10.00 |
| | Pdh (declared heating capacity) | [kW] | 10.97 |
| | COPd (declared COP) | - | 1.98 |
| | WTOL (Heating water Operation Limit) | [°C] | 65 |
| (F) Tbivalent temperature | Tblv | [°C] | -7.00 |
| | Pdh (declared heating capacity) | [kW] | 11.06 |
| | COPd (declared COP) | - | 2.15 |
| Supplementary capacity at P_design | Psup (@Tdesignh: –10°C) | [kW] | 1.53 |
| Colder climate (Design temperature = –22°C) | | | |
| Space heating 35°C | Prated (declared heating capacity) @ –22°C | [kW] | 12.5 |
| | Seasonal space heating efficiency (ηs) | [%] | 168.8 |
| | Annual energy consumption | [kWh] | 7,153 |

| Mini Inverter heat pump space heating | | Outdoor | MGC-V12WD2N8-B |
|--|--|---------|----------------|
| Space heating 55°C | Prated (declared heating capacity) @ -22°C | [kW] | 11.3 |
| | Seasonal space heating efficiency (η_s) | [%] | 126.0 |
| | Annual energy consumption | [kWh] | 8,628 |
| Part load conditions space heating colder climate low temperature application | | | |
| (A) condition (-7°C) | Pdh (declared heating capacity) | [kW] | 8.08 |
| | COPd (declared COP) | - | 3.64 |
| | Cdh(degradation coefficient) | - | 0.90 |
| (B) condition (2°C) | Pdh (declared heating capacity) | [kW] | 4.93 |
| | COPd (declared COP) | - | 5.34 |
| | Cdh(degradation coefficient) | - | 0.90 |
| (C) condition (7°C) | Pdh (declared heating capacity) | [kW] | 3.17 |
| | COPd (declared COP) | - | 5.28 |
| | Cdh(degradation coefficient) | - | 0.90 |
| (D) condition (12°C) | Pdh (declared heating capacity) | [kW] | 3.69 |
| | COPd (declared COP) | - | 9.34 |
| | Cdh(degradation coefficient) | - | 0.90 |
| (E) Tol (temperature operating limit) | Tol (temperature operating limit) | [°C] | -22.00 |
| | Pdh (declared heating capacity) | [kW] | 8.72 |
| | COPd (declared COP) | - | 2.08 |
| | WTOL (Heating water Operation Limit) | [°C] | 65 |
| (F) Tbivalent temperature | Tblv | [°C] | -15.00 |
| | Pdh (declared heating capacity) | [kW] | 10.17 |
| | COPd (declared COP) | - | 2.66 |
| Supplementary capacity at P_design | Psup (@Tdesignh: -22°C) | [kW] | 3.78 |
| Part load conditions space heating colder climate medium temperature application | | | |
| (A) condition (-7°C) | Pdh (declared heating capacity) | [kW] | 7.09 |
| | COPd (declared COP) | - | 2.75 |
| | Cdh(degradation coefficient) | - | 0.90 |

| Mini Inverter heat pump space heating | | Outdoor | MGC-V12WD2N8-B |
|---|--|---------|----------------|
| (B) condition (2°C) | Pdh (declared heating capacity) | [kW] | 4.44 |
| | COPd (declared COP) | - | 3.88 |
| | Cdh(degradation coefficient) | - | 0.90 |
| (C) condition (7°C) | Pdh (declared heating capacity) | [kW] | 3.00 |
| | COPd (declared COP) | - | 4.88 |
| | Cdh(degradation coefficient) | - | 0.90 |
| (D) condition (12°C) | Pdh (declared heating capacity) | [kW] | 3.60 |
| | COPd (declared COP) | - | 6.61 |
| | Cdh(degradation coefficient) | - | 0.90 |
| (E) Tol (temperature operating limit) | Tol (temperature operating limit) | [°C] | -22.00 |
| | Pdh (declared heating capacity) | [kW] | 7.00 |
| | COPd (declared COP) | - | 1.38 |
| | WTOL (Heating water Operation Limit) | [°C] | 65 |
| (F) Tbivalent temperature | Tblv | [°C] | -15.00 |
| | Pdh (declared heating capacity) | [kW] | 9.21 |
| | COPd (declared COP) | - | 1.92 |
| Supplementary capacity at P_design | Psup (@Tdesignh: -22°C) | [kW] | 4.30 |
| Warmer climate (Design temperature = 2°C) | | | |
| Space heating 35°C | Prated (declared heating capacity) @ 2°C | [kW] | 12.1 |
| | Seasonal space heating efficiency (ηs) | [%] | 262.3 |
| | Annual energy consumption | [kWh] | 2,437 |
| Space heating 55°C | Prated (declared heating capacity) @ 2°C | [kW] | 12.0 |
| | Seasonal space heating efficiency (ηs) | [%] | 179.0 |
| | Annual energy consumption | [kWh] | 3,524 |
| Part load conditions space heating warmer climate low temperature application | | | |
| (B) condition (2°C) | Pdh (declared heating capacity) | [kW] | 12.10 |
| | COPd (declared COP) | - | 3.53 |
| | Cdh(degradation coefficient) | - | 0.90 |
| (C) condition (7°C) | Pdh (declared heating capacity) | [kW] | 7.78 |
| | COPd (declared COP) | - | 5.82 |
| | Cdh(degradation coefficient) | - | 0.90 |

| Mini Inverter heat pump space heating | | Outdoor | MGC-V12WD2N8-B |
|--|--------------------------------------|---------|----------------|
| (D) condition (12°C) | Pdh (declared heating capacity) | [kW] | 3.64 |
| | COPd (declared COP) | - | 8.31 |
| | Cdh(degradation coefficient) | - | 0.90 |
| (E) Tol (temperature operating limit) | Tol (temperature operating limit) | [°C] | 2.00 |
| | Pdh (declared heating capacity) | [kW] | 12.10 |
| | COPd (declared COP) | - | 3.53 |
| | WTOL (Heating water Operation Limit) | [°C] | 65 |
| (F) Tbivalent temperature | Tblv | [°C] | 7.00 |
| | Pdh (declared heating capacity) | [kW] | 7.78 |
| | COPd (declared COP) | - | 5.82 |
| Supplementary capacity at P_design | Psup (@Tdesignh: 2°C) | [kW] | 0.00 |
| Part load conditions space heating warmer climate medium temperature application | | | |
| (B) condition (2°C) | Pdh (declared heating capacity) | [kW] | 12.00 |
| | COPd (declared COP) | - | 2.39 |
| | Cdh(degradation coefficient) | - | 0.90 |
| (C) condition (7°C) | Pdh (declared heating capacity) | [kW] | 7.73 |
| | COPd (declared COP) | - | 3.86 |
| | Cdh(degradation coefficient) | - | 0.90 |
| (D) condition (12°C) | Pdh (declared heating capacity) | [kW] | 3.59 |
| | COPd (declared COP) | - | 5.88 |
| | Cdh(degradation coefficient) | - | 0.90 |
| (E) Tol (temperature operating limit) | Tol (temperature operating limit) | [°C] | 2.00 |
| | Pdh (declared heating capacity) | [kW] | 12.00 |
| | COPd (declared COP) | - | 2.39 |
| | WTOL (Heating water Operation Limit) | [°C] | 65 |
| (F) Tbivalent temperature | Tblv | [°C] | 7.00 |
| | Pdh (declared heating capacity) | [kW] | 7.73 |
| | COPd (declared COP) | - | 3.86 |
| Supplementary capacity at P_design | Psup (@Tdesignh: 2°C) | [kW] | 0.00 |

| Mini Inverter heat pump space heating | | Outdoor | MGC-V12WD2N8-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] | 5200 |
| 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-V12WD2N8-B |
|--|--|---------|----------------|
| Outdoor unit sound power (*) | Average climate low temperature application | dB | 69 |
| | Average climate medium temperature application | dB | 69 |
| Space cooling 7°C | Prated (declared cooling capacity) @ 35°C | [kW] | 11.7 |
| | Seasonal space cooling efficiency (η_s) | [%] | 199.92 |
| | Annual energy consumption | [kWh] | 1,380 |
| Space cooling 18°C | Prated (declared cooling capacity) @ 35°C | [kW] | 12.1 |
| | Seasonal space cooling efficiency (η_s) | [%] | 308.53 |
| | Annual energy consumption | [kWh] | 932 |
| Part load conditions space cooling : low temperature application@7°C | | | |
| (A) condition (35°C) | Pdc (declared cooling capacity) | [kW] | 11.67 |
| | EERd (declared EER) | - | 3.11 |
| | Cdc(degradation coefficient) | - | 0.90 |
| (B) condition (30°C) | Pdc (declared cooling capacity) | [kW] | 8.84 |
| | EERd (declared EER) | - | 4.14 |
| | Cdc(degradation coefficient) | - | 0.90 |
| (C) condition (25°C) | Pdc (declared cooling capacity) | [kW] | 5.64 |
| | EERd (declared EER) | - | 5.71 |
| | Cdc(degradation coefficient) | - | 0.90 |
| (D) condition (20°C) | Pdc (declared cooling capacity) | [kW] | 2.75 |
| | EERd (declared EER) | - | 6.76 |
| | Cdc(degradation coefficient) | - | 0.90 |

| Mini Inverter heat pump space cooling | | Outdoor | MGC-V12WD2N8-B |
|--|---|---------------------|----------------|
| Part load conditions space cooling : medium temperature application@18°C | | | |
| (A) condition (35°C) | Pdc (declared cooling capacity) | [kW] | 12.10 |
| | EERd (declared EER) | - | 4.77 |
| | Cdc(degradation coefficient) | - | 0.90 |
| (B) condition (30°C) | Pdc (declared cooling capacity) | [kW] | 9.24 |
| | EERd (declared EER) | - | 6.67 |
| | Cdc(degradation coefficient) | - | 0.90 |
| (C) condition (25°C) | Pdc (declared cooling capacity) | [kW] | 5.83 |
| | EERd (declared EER) | - | 9.38 |
| | Cdc(degradation coefficient) | - | 0.90 |
| (D) condition (20°C) | Pdc (declared cooling capacity) | [kW] | 3.86 |
| | EERd (declared EER) | - | 9.38 |
| | Cdc(degradation coefficient) | - | 0.90 |
| Air to water unit | Rated airflow (outdoor) | [m ³ /h] | 5200 |
| 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-V12WD2N8-B | 12.20 | 2.652 | 4.60 | 11.60 | 3.742 | 3.10 | 12.20 | 2.490 | 4.90 | 12.30 | 3.417 | 3.60 |

| 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-V12WD2N8-B | 11.60 | 4.070 | 2.85 | 12.50 | 3.378 | 3.70 | 12.00 | 4.138 | 2.90 | 11.50 | 4.792 | 2.40 |

| 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-V12WD2N8-B | 12.00 | 4.000 | 3.00 | 12.00 | 5.106 | 2.35 | 10.80 | 5.143 | 2.10 |