

Subtype Mars R290 Series 26 30 35kW

Certificate Holder	GD Midea Heating & Ventilating Equipment Co., Ltd.
Address	Penglai Industry Road
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City	Beijiao, Shunde, Foshan
Country	CN
Certification Body	BRE Global Limited
Subtype title	Mars R290 Series 26 30 35kW
Registration number	041-K007-34
Heat Pump Type	Outdoor Air/Water
Refrigerant	R290
Mass of Refrigerant	2.9 kg
Certification Date	16.10.2024
Testing basis	HP KEYMARK certification scheme rules rev. no.14

Model MHC-V26WD2RN7

Model name	MHC-V26WD2RN7
Application	Heating (medium temp)
Units	Outdoor
Climate zone (for heating)	Colder, Warmer
Reversibility	Yes
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	3x400V 50Hz
Off-peak product	n/a

Outdoor Air/Water**EN 14511-4 | Heating**

Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	26.00 kW	26.00 kW
El input	5.45 kW	7.85 kW
COP	4.77	3.31

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level outdoor	69 dB(A)	69 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	194.9 %	150.7 %
Prated	26.0 kW	26.0 kW
SCOP	4.95	3.84
Tbiv	-7 °C	-7 °C
TOL	-10.00 °C	-10.00 °C
Pdh Tj = -7°C	23.41 kW	23.26 kW
COP Tj = -7°C	3.03	2.33
Cdh Tj = -7 °C	0.90	0.90
Pdh Tj = +2°C	14.36 kW	13.92 kW
COP Tj = +2°C	4.87	3.68
Cdh Tj = +2 °C	0.90	0.90
Pdh Tj = +7°C	9.15 kW	9.49 kW

COP Tj = +7°C	6.80	5.51
Cdh Tj = +7 °C	0.90	0.90
Pdh Tj = 12°C	6.87 kW	6.60 kW
COP Tj = 12°C	9.23	6.25
Cdh Tj = +12 °C	0.90	0.90
Pdh Tj = Tbiv	23.41 kW	23.26 kW
COP Tj = Tbiv	3.03	2.33
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	26.00 kW	26.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.85	1.98
WTOL	85.00 °C	85.00 °C
Poff	14.00 W	14.00 W
PTO	13.00 W	13.00 W
PSB	14.00 W	14.00 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	10856 kWh	13984 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level outdoor	69 dB(A)	69 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
ηs	155 %	126 %
Prated	25.0 kW	25.0 kW
SCOP	3.95	3.23
Tbiv	-15.00 °C	-15.00 °C
TOL	-22.00 °C	-22.00 °C
Pdh Tj = -7°C	14.98 kW	15.14 kW
COP Tj = -7°C	3.40	2.64
Cdh Tj = -7 °C	0.90	0.90
Pdh Tj = +2°C	9.42 kW	9.28 kW
COP Tj = +2°C	4.55	3.83
Cdh Tj = +2 °C	0.90	0.90
Pdh Tj = +7°C	6.49 kW	6.28 kW
COP Tj = +7°C	7.03	5.14
Cdh Tj = +7 °C	0.90	0.90
Pdh Tj = 12°C	6.95 kW	6.63 kW
COP Tj = 12°C	7.64	6.95
Cdh Tj = +12 °C	0.90	0.90
Pdh Tj = Tbiv	19.54 kW	20.50 kW
COP Tj = Tbiv	2.63	2.09

Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	16.82 kW	17.61 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.17	1.71
WTOL	85.00 °C	85.00 °C
Poff	14.00 W	14.00 W
PTO	13.00 W	13.00 W
PSB	14.00 W	14.00 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	8.19 kW	7.39 kW
Annual energy consumption Qhe	15592.00 kWh	19078.00 kWh
Pdh Tj = -15°C (if TOL	19.54	20.50
COP Tj = -15°C (if TOL	2.63	2.09
Cdh Tj = -15 °C	0.90	0.9

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level outdoor	69 dB(A)	69 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
η_s	259.80 %	194.80 %
Prated	26.00 kW	26.00 kW
SCOP	6.57	4.94
Tbiv	7.00 °C	7.00 °C
TOL	2.00 °C	2.00 °C
Pdh Tj = +2°C	26.00 kW	26.00 kW
COP Tj = +2°C	3.66	2.53
Cdh Tj = +2 °C	0.90	0.90
Pdh Tj = +7°C	16.70 kW	16.65 kW
COP Tj = +7°C	5.78	4.11
Cdh Tj = +7 °C	0.90	0.90
Pdh Tj = 12°C	7.67 kW	7.76 kW
COP Tj = 12°C	8.52	6.65
Cdh Tj = +12 °C	0.90	0.90
Pdh Tj = Tbiv	16.70 kW	16.65 kW
COP Tj = Tbiv	5.78	4.11
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	26.00 kW	26.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.66	2.53
WTOL	85.00 °C	85.00 °C
Poff	14.00 W	14.00 W
PTO	13.00 W	13.00 W
PSB	14.00 W	14.00 W

PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	5287.00 kWh	7025.00 kWh

Model MHC-V30WD2RN7

Model name	MHC-V30WD2RN7
Application	Heating (medium temp)
Units	Outdoor
Climate zone (for heating)	Colder, Warmer
Reversibility	Yes
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	3x400V 50Hz
Off-peak product	n/a

Outdoor Air/Water**EN 14511-4 | Heating**

Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	30.00 kW	30.00 kW
El input	6.67 kW	9.57 kW
COP	4.50	3.13

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level outdoor	74 dB(A)	74 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	193.8 %	148.7 %
Prated	30.0 kW	30.0 kW
SCOP	4.92	3.79
Tbiv	-7 °C	-7 °C
TOL	-10.00 °C	-10.00 °C
Pdh Tj = -7°C	26.39 kW	27.36 kW
COP Tj = -7°C	2.72	2.07
Cdh Tj = -7 °C	0.90	0.90
Pdh Tj = +2°C	16.65 kW	16.52 kW
COP Tj = +2°C	4.97	3.72
Cdh Tj = +2 °C	0.90	0.90
Pdh Tj = +7°C	10.27 kW	10.74 kW

COP Tj = +7°C	6.91	5.55
Cdh Tj = +7 °C	0.90	0.90
Pdh Tj = 12°C	7.26 kW	6.49 kW
COP Tj = 12°C	9.66	7.09
Cdh Tj = +12 °C	0.90	0.90
Pdh Tj = Tbiv	26.39 kW	27.36 kW
COP Tj = Tbiv	2.72	2.07
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	30.00 kW	30.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.45	1.89
WTOL	85.00 °C	85.00 °C
Poff	14.00 W	14.00 W
PTO	13.00 W	13.00 W
PSB	14.00 W	14.00 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	12600 kWh	16346 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level outdoor	74 dB(A)	74 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
ηs	153 %	123 %
Prated	28.0 kW	28.0 kW
SCOP	3.91	3.14
Tbiv	-7.00 °C	-7.00 °C
TOL	-22.00 °C	-22.00 °C
Pdh Tj = -7°C	15.88 kW	16.54 kW
COP Tj = -7°C	3.56	2.50
Cdh Tj = -7 °C	0.90	0.90
Pdh Tj = +2°C	10.76 kW	10.71 kW
COP Tj = +2°C	4.57	3.76
Cdh Tj = +2 °C	0.90	0.90
Pdh Tj = +7°C	6.07 kW	6.69 kW
COP Tj = +7°C	6.40	5.52
Cdh Tj = +7 °C	0.90	0.90
Pdh Tj = 12°C	6.92 kW	6.84 kW
COP Tj = 12°C	7.11	6.75
Cdh Tj = +12 °C	0.90	0.90
Pdh Tj = Tbiv	15.88 kW	16.54 kW
COP Tj = Tbiv	3.56	2.50

Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	18.43 kW	19.95 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.13	1.70
WTOL	85.00 °C	85.00 °C
Poff	14.00 W	14.00 W
PTO	13.00 W	13.00 W
PSB	14.00 W	14.00 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	9.57 kW	8.05 kW
Annual energy consumption Qhe	17664.00 kWh	21950.00 kWh
Pdh Tj = -15°C (if TOL	21.33	22.00
COP Tj = -15°C (if TOL	2.56	2.07
Cdh Tj = -15 °C	0.90	0.9

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level outdoor	74 dB(A)	74 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
ηs	247.50 %	193.10 %
Prated	30.00 kW	30.00 kW
SCOP	6.26	4.90
Tbiv	7.00 °C	7.00 °C
TOL	2.00 °C	2.00 °C
Pdh Tj = +2°C	30.00 kW	29.76 kW
COP Tj = +2°C	3.19	2.44
Cdh Tj = +2 °C	0.90	0.90
Pdh Tj = +7°C	19.09 kW	19.05 kW
COP Tj = +7°C	5.44	4.03
Cdh Tj = +7 °C	0.90	0.90
Pdh Tj = 12°C	8.99 kW	9.14 kW
COP Tj = 12°C	8.42	6.70
Cdh Tj = +12 °C	0.90	0.90
Pdh Tj = Tbiv	19.09 kW	19.05 kW
COP Tj = Tbiv	5.44	4.03
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	30.00 kW	29.76 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.19	2.44
WTOL	85.00 °C	85.00 °C
Poff	14.00 W	14.00 W
PTO	13.00 W	13.00 W
PSB	14.00 W	14.00 W

PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.24 kW
Annual energy consumption Qhe	6399.00 kWh	8177.00 kWh

Model MHC-V35WD2RN7

Model name	MHC-V35WD2RN7
Application	Heating (medium temp)
Units	Outdoor
Climate zone (for heating)	Colder, Warmer
Reversibility	Yes
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	3x400V 50Hz
Off-peak product	n/a

Outdoor Air/Water**EN 14511-4 | Heating**

Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	35.00 kW	35.00 kW
El input	8.40 kW	11.75 kW
COP	4.17	2.98

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level outdoor	75 dB(A)	75 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	176.3 %	142.4 %
Prated	35.0 kW	35.0 kW
SCOP	4.48	3.63
Tbiv	-7 °C	-7 °C
TOL	-10.00 °C	-10.00 °C
Pdh Tj = -7°C	27.90 kW	30.66 kW
COP Tj = -7°C	2.55	1.93
Cdh Tj = -7 °C	0.90	0.90
Pdh Tj = +2°C	18.47 kW	19.29 kW
COP Tj = +2°C	4.39	3.54
Cdh Tj = +2 °C	0.90	0.90
Pdh Tj = +7°C	12.06 kW	12.50 kW

COP Tj = +7°C	6.99	5.47
Cdh Tj = +7 °C	0.90	0.90
Pdh Tj = 12°C	7.59 kW	6.51 kW
COP Tj = 12°C	10.89	7.28
Cdh Tj = +12 °C	0.90	0.90
Pdh Tj = Tbiv	27.90 kW	30.66 kW
COP Tj = Tbiv	2.55	1.93
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	35.00 kW	34.53 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.05	1.79
WTOL	85.00 °C	85.00 °C
Poff	14.00 W	14.00 W
PTO	13.00 W	13.00 W
PSB	14.00 W	14.00 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.47 kW
Annual energy consumption Qhe	16131 kWh	19899 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level outdoor	75 dB(A)	75 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
ηs	151 %	118 %
Prated	34.0 kW	33.5 kW
SCOP	3.85	3.03
Tbiv	-7.00 °C	-7.00 °C
TOL	-22.00 °C	-22.00 °C
Pdh Tj = -7°C	18.56 kW	18.34 kW
COP Tj = -7°C	3.49	2.33
Cdh Tj = -7 °C	0.90	0.90
Pdh Tj = +2°C	11.32 kW	11.80 kW
COP Tj = +2°C	4.62	3.71
Cdh Tj = +2 °C	0.90	0.90
Pdh Tj = +7°C	7.57 kW	8.16 kW
COP Tj = +7°C	6.57	5.49
Cdh Tj = +7 °C	0.90	0.90
Pdh Tj = 12°C	6.92 kW	6.84 kW
COP Tj = 12°C	7.11	6.75
Cdh Tj = +12 °C	0.90	0.90
Pdh Tj = Tbiv	18.56 kW	18.34 kW
COP Tj = Tbiv	3.49	2.33

Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	22.96 kW	24.34 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	1.93	1.60
WTOL	85.00 °C	85.00 °C
Poff	14.00 W	14.00 W
PTO	13.00 W	13.00 W
PSB	14.00 W	14.00 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	11.04 kW	9.16 kW
Annual energy consumption Qhe	21760.00 kWh	27265.00 kWh
Pdh Tj = -15°C (if TOL	26.02	26.50
COP Tj = -15°C (if TOL	2.29	1.90
Cdh Tj = -15 °C	0.90	0.9

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level outdoor	75 dB(A)	75 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
η_s	240.30 %	187.10 %
Prated	35.00 kW	35.00 kW
SCOP	6.08	4.75
Tbiv	7.00 °C	7.00 °C
TOL	2.00 °C	2.00 °C
Pdh Tj = +2°C	33.92 kW	33.06 kW
COP Tj = +2°C	2.56	2.31
Cdh Tj = +2 °C	0.90	0.90
Pdh Tj = +7°C	22.44 kW	22.45 kW
COP Tj = +7°C	5.42	3.98
Cdh Tj = +7 °C	0.90	0.90
Pdh Tj = 12°C	10.36 kW	10.16 kW
COP Tj = 12°C	8.43	6.62
Cdh Tj = +12 °C	0.90	0.90
Pdh Tj = Tbiv	22.44 kW	22.45 kW
COP Tj = Tbiv	5.42	3.98
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	33.92 kW	33.06 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.56	2.31
WTOL	85.00 °C	85.00 °C
Poff	14.00 W	14.00 W
PTO	13.00 W	13.00 W
PSB	14.00 W	14.00 W

PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.08 kW	1.94 kW
Annual energy consumption Qhe	7687.00 kWh	9838.00 kWh