

## 1 Specifications

Mars Series		MHC-V35WD2N7	MHC-V30WD2N7	MHC-V26WD2N7	
Power supply	V/Ph/Hz	380-415 / 3 / 50			
Heating A7W35	Capacity	W	35000	30000	26000
	Rated input	W	8400	6670	5450
	COP		4.17	4.50	4.77
Heating A7W45	Capacity	W	35000	30000	26000
	Rated input	W	10050	8260	6820
	COP		3.48	3.63	3.81
Heating A7W55	Capacity	W	35000	30000	26000
	Rated input	W	11750	9570	7850
	COP		2.98	3.13	3.31
Heating A7W65	Capacity	W	35000	30000	26000
	Rated input	W	14600	11850	9860
	COP		2.40	2.53	2.64
Heating A2W35	Capacity	W	30400	26800	23500
	Rated input	W	9520	7620	6350
	COP		3.19	3.52	3.70
Heating A2W45	Capacity	W	30000	26100	22600
	Rated input	W	11200	8380	7180
	COP		2.68	3.11	3.15
Heating A2W55	Capacity	W	29600	25350	21950
	Rated input	W	12060	9650	8100
	COP		2.45	2.63	2.71
Heating A-7W35	Capacity	W	28200	24000	21000
	Rated input	W	11100	8380	6930
	COP		2.54	2.86	3.03
Heating A-7W45	Capacity	W	26900	23100	20100
	Rated input	W	12000	9590	7530
	COP		2.24	2.41	2.67
Heating A-7W55	Capacity	W	24800	21300	18800
	Rated input	W	11900	9600	8170
	COP		2.08	2.22	2.30
Cooling A35W18	Capacity	W	35000	30000	26000
	Rated input	W	8500	6800	5600
	EER		4.12	4.41	4.64
Cooling A35W7	Capacity	W	32000	30000	26000
	Rated input	W	11980	10700	8400
	EER		2.67	2.80	3.10

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Seasonal space heating energy efficiency class	LWT (leaving water temperature)	35°C	A+++	A+++	A+++
		55°C	A++	A++	A+++
SCOP	Warmer climate	35°C	6.08	6.26	6.57
		55°C	4.75	4.90	4.94
	Average climate	35°C	4.48	4.92	4.95
		55°C	3.63	3.79	3.84
	Colder climate	35°C	3.85	3.91	3.95
		55°C	3.03	3.14	3.23
SEER	LWT (leaving water temperature)	7°C	4.82	4.99	5.21
		18°C	6.43	6.8	7.17
Erp Sound power level		dB	75	74	69
Sound power level	Heating A7W55	dB	75.6	75.0	70.2
	Heating Max.	dB	75.5	74.8	74.5
	Heating Silent mode 1	dB	65.5	64.6	62.9
	Heating Silent mode 2	dB	63.6	62.3	62.4
	Cooling A35W18	dB	74.3	73.8	69.8
	Cooling max	dB	75.0	75.9	74.6
	Cooling Silent mode 1	dB	68.4	66.6	65.9
	Cooling Silent mode 2	dB	65.1	62.9	62.4
Sound pressure level (1m)	Heating A7W55	dB(A)	61.7	61.3	54.8
	Heating Max.	dB(A)	62.8	61.4	61.1
	Heating Silent mode 1	dB(A)	51.3	50.4	48.5
	Heating Silent mode 2	dB(A)	48.1	47.0	45.0
	Cooling A35W18	dB(A)	60.7	60.3	59.9
	Cooling max	dB(A)	61.1	60.1	59.8
	Cooling Silent mode 1	dB(A)	53.5	53.8	50.2
	Cooling Silent mode 2	dB(A)	49.4	47.9	47.3
Sound pressure level (2m)	Heating A7W55	dB(A)	58.3	58.0	53.4
	Heating Max.	dB(A)	59.2	58.0	57.8
	Heating Silent mode 1	dB(A)	49.9	47.9	48.0
	Heating Silent mode 2	dB(A)	47.6	45.8	45.2
	Cooling A35W18	dB(A)	57.0	56.3	55.8
	Cooling max	dB(A)	57.0	56.7	56.4
	Cooling Silent mode 1	dB(A)	48.8	48.9	46.0
	Cooling Silent mode 2	dB(A)	46.7	44.9	43.7

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Water flow range		m3/h	1.2-7.2		
Compressor	Type		Scroll		
Outdoor fan	Motor type / Number of fans		DC fan / 2		
Air-side heat exchanger			Finned tube heat exchanger		
Refrigerant			R290 2900g		
Unit dimensions (WxHxD)		mm	1384x1816x523		
Packing dimensions (WxHxD)		mm	1480x2000x570		
Net weight		kg	260		
Gross weight		kg	280		
Water-side heat exchanger			Plate heat exchanger		
Water-side Connection method			Threaded connection		
Water pump	Max. pump head	m	12		
Expansion vessel (primary circuit)	Nominal volume	L	5		
	Charge pressure	Bar	8		
Safety valve		Bar	3		
Flow switch		m3/h	0.87		
Outdoor air temperature range	Cooling	°C	-15~48		
	Heating	°C	-25~43		
	DHW	°C	-25~43		
Water setting temperature range	Cooling	°C	5~25		
	Heating	°C	25~85		
	DHW	°C	20~75		
Notes:					
The above data test reference standard EN14511; EN14825; EN50564;EN 12102; (EU) No:811					

## 2 Electrical characteristics

System	Outdoor unit			Power current			Fan	
	Power supply	Min. (V)	Max. (V)	MCA (A)	TOCA (A)	MFA (A)	kW	FLA (A)
MHC-V35WD2RN7	380~415V / 3N / 50Hz	342	456	32	35	40	0.2	1.1
MHC-V30WD2RN7	380~415V / 3N / 50Hz	342	456	30	35	40	0.2	1.1
MHC-V26WD2RN7	380~415V / 3N / 50Hz	342	456	28	35	40	0.2	1.1

**Notes:**

Name	Description	Explanation
Min. & Max.	Minimum & Maximum running voltage (V)	Required voltage range for system operation
MCA	Min. Circuit Amps. (A)	Determines minimum wire diameter
TOCA	Total Over-current Amps. (A)	The maximum current for protecting system
MFA	Max. Fuse Amps. (A)	Determines air-break switch /circuit breaker/ Fuse
MSC	Max. Starting Amps. (A)	Starting current of the inverter compressor is very small and can be ignored.
kW	Rated Motor Output	/
FLA	Full Load Amps. (A)	The current measured by the motor at rated voltage and rated speed (usually the highest motor speed) under rated load.

For models with backup heater, the backup heater does not share wiring with the unit. Separate connection required.