

1 Specifications

1.1 Single Phase 8-16 kW

R290 Nature Series			MHC-V8WD2N7-BE30	MHC-V10WD2N7-BE30	MHC-V12WD2N7-BE30	MHC-V14WD2N7-BE30	MHC-V16WD2N7-BE30
Power supply	V/Ph/Hz		220-240/1/50				
Heating A7W35	Capacity	W	8000	9500	12100	14000	15500
	Rated input	W	1524	1919	2444	2979	3444
	COP	/	5.25	4.95	4.95	4.70	4.50
Heating A7W45	Capacity	W	8100	9500	12300	14100	15500
	Rated input	W	2025	2436	3154	3760	4247
	COP	/	4.00	3.90	3.90	3.75	3.65
Heating A7W55	Capacity	W	8000	9500	11900	13800	16000
	Rated input	W	2388	2969	3662	4381	5246
	COP	/	3.35	3.20	3.25	3.15	3.05
Heating A2W35	Capacity	W	7100	8200	9200	11000	13000
	Rated input	W	1732	2103	2300	2895	3714
	COP	/	4.10	3.90	4.00	3.80	3.50
Heating A2W45	Capacity	W	8000	9000	11500	12500	13800
	Rated input	W	2540	2951	3710	4098	4759
	COP	/	3.15	3.05	3.10	3.05	2.90
Heating A2W55	Capacity	W	8000	9000	11500	12500	13800
	Rated input	W	2963	3529	4340	4808	5520
	COP	/	2.70	2.55	2.65	2.60	2.50
Heating A-7W35	Capacity	W	7000	8000	10000	12000	13100
	Rated input	W	2154	2540	3175	4286	4852
	COP	/	3.25	3.15	3.15	2.80	2.70
Heating A-7W45	Capacity	W	8000	9000	11000	12000	13000
	Rated input	W	3077	3600	4400	5000	5652
	COP	/	2.60	2.50	2.50	2.40	2.30
Heating A-7W55	Capacity	W	7500	8800	11000	12000	13000
	Rated input	W	3261	4000	4889	5581	6190
	COP	/	2.30	2.20	2.25	2.15	2.10
Cooling A35W18	Capacity	W	8300	10000	12000	14000	15000
	Rated input	W	1581	2174	2609	3182	3529
	EER	/	5.25	4.60	4.60	4.40	4.25
Cooling A35W7	Capacity	W	7450	8100	11500	12400	14000
	Rated input	W	2224	2613	3770	4133	5185
	EER	/	3.35	3.10	3.05	3.00	2.70
Seasonal space heating energy efficiency class	Leaving water temperature at 35°C	A+++					
	Leaving water temperature at 55°C	A+++					
SEER	LWT at 7°C		5.61	5.53	4.99	4.97	4.98
	LWT at 18°C		7.63	7.67	7.03	6.94	6.87

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SCOP	Warmer climate	LWT at 35°C	6.91	6.87	6.8	6.74	6.77
		LWT at 55°C	4.86	4.85	4.89	4.87	4.86
	Average climate	LWT at 35°C	5.35	5.33	4.94	4.76	4.72
		LWT at 55°C	4.06	4.01	3.96	3.85	3.86
	Colder climate	LWT at 35°C	4.6	4.53	4.53	4.45	4.31
		LWT at 55°C	3.45	3.49	3.56	3.54	3.51
Erp Sound power level		dB	53	54	55	57	59
Sound power level	Heating A7W35	dB	52	54	54	57	58
	Heating Max.	dB	57	58	61	62	63
	Heating Silent mode 1	dB	51	53	56	57	59
	Heating Silent mode 2	dB	49	51	54	54	55
	Cooling A35W18	dB	53	54	56	57	59
	Cooling max	dB	56	57	60	61	62
	Cooling Silent mode 1	dB	53	54	54	55	56
	Cooling Silent mode 2	dB	51	52	52	53	54
Sound pressure level (1m)	Heating A7W35	dB(A)	40	41	43	46	49
	Cooling A35W18	dB(A)	39	41	42	43	44
Sound pressure level (2m)	Heating A7W35	dB(A)	37	38	40	42	44
	Cooling A35W18	dB(A)	35	37	38	39	42
Water flow range		m3/h	0.40 - 1.65	0.40 - 2.10	0.70 - 2.50	0.70 - 2.75	0.70 - 3.00
Compressor	Type		Twin rotary				
Outdoor fan	Motor type / Number of fans		DC fan / 1				
Air-side heat exchanger			Finned tube heat exchanger				
Refrigerant	Type/ Charged volume		R290/1100g		R290/1500g		
Unit dimensions (H×W×D)		mm	1051×1330×475				
Packing dimensions (H×W×D)		mm	1235×1390×570				
Net weight		kg	148		169		
Gross weight		kg	170		191		
Water-side heat exchanger			Plate heat exchanger				
Water-side Connection dimensions			G1 1/4"BSP				
Water pump	Max. pump head	m	9				
Safety valve		Mpa	0.3				
Flow switch		m3/h	0.36		0.6		
Outdoor air temperature range	Cooling	°C	-5～46				
	Heating	°C	-25～35				
	DHW	°C	-25～46				
Water setting temperature range	Cooling	°C	5～25				
	Heating	°C	25～80				
	DHW	°C	20～70				
Notes:							
The above data test reference standard EN14511; EN14825; EN50564;EN 12102; (EU) No:811							