

M thermal Arctic Mono



Outdoor unit model name			MHC-V4W/D2N8-BE30	MHC-V6W/D2N8-BE30	MHC-V8W/D2N8-BE30	MHC-V8W/D2N8-BER90	MHC-V10W/D2N8-BE30	MHC-V10W/D2N8-BER90
Power supply	V/Ph/Hz		220-240/1/50	220-240/1/50	220-240/1/50	380-415/3/50	220-240/1/50	380-415/3/50
Heating A7W35	Capacity	kW	4.20	6.35	8.40	8.40	10.0	10.0
	Rated input	kW	0.82	1.28	1.63	1.63	2.02	2.02
	COP		5.10	4.95	5.15	5.15	4.95	4.95
Heating A7W45	Capacity	kW	4.30	6.30	8.10	8.10	10.0	10.0
	Rated input	kW	1.13	1.70	2.10	2.10	2.67	2.67
	COP		3.80	3.70	3.85	3.85	3.75	3.75
Heating A7W55	Capacity	kW	4.40	6.00	7.50	7.50	9.50	9.50
	Rated input	kW	1.49	2.03	2.36	2.36	3.06	3.06
	COP		2.95	2.95	3.18	3.18	3.10	3.10
Heating A-7W35	Capacity	kW	4.70	6.00	7.00	7.00	8.00	8.00
	Rated input	kW	1.52	2.00	2.19	2.19	2.62	2.62
	COP		3.10	3.00	3.20	3.20	3.05	3.05
Heating A-7W55	Capacity	kW	4.00	5.15	6.15	6.15	6.85	6.85
	Rated input	kW	2.05	2.58	3.00	3.00	3.43	3.43
	COP		1.95	2.00	2.05	2.05	2.00	2.00
Cooling A35W18	Capacity	kW	4.50	6.50	8.30	8.30	9.90	9.90
	Rated input	kW	0.82	1.35	1.64	1.64	2.18	2.18
	EER		5.50	4.80	5.05	5.05	4.55	4.55
Cooling A35W7	Capacity	kW	4.70	7.00	7.45	7.45	8.20	8.20
	Rated input	kW	1.36	2.33	2.22	2.22	2.52	2.52
	EER		3.45	3.00	3.35	3.35	3.25	3.25
Seasonal space heating energy efficiency class	Water outlet at 35°C		A+++					
	Water outlet at 55°C		A++					
SCOP	Warmer climate	35°C	6.46	6.57	6.99	6.99	7.09	7.09
		55°C	4.15	4.21	4.51	4.51	4.62	4.62
	Average climate	35°C	4.85	4.95	5.22	5.22	5.20	5.20
		55°C	3.31	3.52	3.37	3.37	3.47	3.47
	Colder climate	35°C	4.06	4.21	4.33	4.33	4.32	4.32
		55°C	2.63	2.85	2.88	2.88	2.99	2.99
SEER	Water outlet	7°C	4.98	5.31	5.82	5.82	5.95	5.95
		18°C	7.76	8.22	8.94	8.94	8.73	8.73
Sound power Level ²		dB	55	58	59	59	59	59
Rated water flow		m³/h	0.72	1.09	1.44	1.44	1.44	1.44
Water flow range		m³/h	0.4~0.9	0.4~1.25	0.4~1.65	0.4~1.65	0.4~1.65	0.4~1.65
Internal water volume		L	3.31-8.11	3.31-8.11	3.59-8.39	3.49-8.29	3.59-8.39	3.49-8.29
Backup electric heater	Capacity	kW	3	3	3	9	3	9
	Power supply	V/Ph/Hz	220-240 /1/50	220-240 /1/50	220-240 /1/50	380-415 /3/50	220-240 /1/50	380-415 /3/50
Compressor	Type		Twin rotary					
Outdoor fan	Motor type / Number of fans		DC fan / 1					

Air side heat exchanger			Finned tube			
Refrigerant			R32 1.4kg			
Unit dimension (W×H×D)	mm	1295×718×429	1385×865×523			
Packing dimension (W×H×D)	mm	1375×885×475	1465×1035×560			
Net/Gross weight	kg	91/112	110/137			
Outdoor air temperature range	Cooling	°C	-5 ~ 43			
	Heating	°C	-25 ~ 35			
	DHW	°C	-25 ~ 43			
Water side heat exchanger			Plate type			
Water side connection			R1 "	R1 "	R5/4"	R5/4"
Water setting temperature range	Cooling	°C	5 ~ 25			
	Heating	°C	25 ~ 65			
	DHW ³	°C	20 ~ 60			

Notes:

1. Relevant EU standards and legislation: EN14511; EN14825; EN50564; EN12102; (EU) No 811/2013; (EU) No 813/2013; OJ 2014/C 207/02.
2. Sound power test condition: EN12102-1
3. Maximum domestic hot water temperature 60°C is only available with TBH support.

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Outdoor unit model name			MHC-V12W /D2N8-BE30	MHC-V12W /D2N8-BER90	MHC-V14W /D2N8-BE30	MHC-V14W /D2N8-BER90	MHC-V16W /D2N8-BE30	MHC-V16W /D2N8-BER90
Power supply		V/Ph/Hz	220-240/1/50	380-415/3/50	220-240/1/50	380-415/3/50	220-240/1/50	380-415/3/50
Heating A7W35	Capacity	kW	12.1	12.1	14.5	14.5	15.9	15.9
	Rated input	kW	2.44	2.44	3.15	3.15	3.53	3.53
	COP		4.95	4.95	4.60	4.60	4.50	4.50
Heating A7W45	Capacity	kW	12.3	12.3	14.1	14.1	16.0	16.0
	Rated input	kW	3.32	3.32	3.92	3.92	4.57	4.57
	COP		3.70	3.70	3.60	3.60	3.50	3.50
Heating A7W55	Capacity	kW	11.9	11.9	13.8	13.8	16.0	16.0
	Rated input	kW	3.90	3.90	4.68	4.68	5.61	5.61
	COP		3.05	3.05	2.95	2.95	2.85	2.85
Heating A-7W35	Capacity	kW	10.00	10.00	12.00	12.00	13.10	13.10
	Rated input	kW	3.33	3.33	4.21	4.21	4.85	4.85
	COP		3.00	3.00	2.85	2.85	2.70	2.70
Heating A-7W55	Capacity	kW	9.80	9.80	11.00	11.00	12.50	12.50
	Rated input	kW	4.78	4.78	5.37	5.37	6.25	6.25
	COP		2.05	2.05	2.05	2.05	2.00	2.00
Cooling A35W18	Capacity	kW	12.00	12.00	13.50	13.50	14.2	14.2
	Rated input	kW	3.04	3.04	3.74	3.74	3.94	3.94
	EER		3.95	3.95	3.61	3.61	3.61	3.61
Cooling A35W7	Capacity	kW	11.5	11.5	12.4	12.4	14.0	14.0
	Rated input	kW	4.18	4.18	4.96	4.96	5.60	5.60
	EER		2.75	2.75	2.50	2.50	2.50	2.50
Seasonal space heating energy efficiency class	Water outlet at 35°C		A+++					
	Water outlet at 55°C		A++					
SCOP	Warmer climate	35°C	6.48	6.48	6.58	6.58	6.29	6.29
		55°C	4.43	4.43	4.49	4.49	4.48	4.48
	Average climate	35°C	4.81	4.81	4.72	4.72	4.62	4.62
		55°C	3.45	3.45	3.47	3.47	3.41	3.41
	Colder climate	35°C	4.08	4.08	4.07	4.07	4.02	4.02
		55°C	3.02	3.02	3.05	3.05	3.12	3.12
SEER	Water outlet	7°C	4.93	4.93	4.87	4.87	4.69	4.69
		18°C	7.13	7.13	6.94	6.94	6.75	6.75
Sound power Level ²		dB	65	65	65	65	68	68
Rated water flow		m³/h	2.08	2.08	2.49	2.49	2.73	2.73
Water flow range		m³/h	0.7~2.5	0.7~2.5	0.7~2.75	0.7~2.75	0.7~3.0	0.7~3.0
Internal water volume		L	3.93-8.73	3.83-8.63	3.93-8.73	3.83-8.63	3.93-8.73	3.83-8.63
Backup electric heater	Capacity	kW	3	9	3	9	3	9
	Power supply	V/Ph/Hz	220- 240/1/50	380- 415/3/50	220- 240/1/50	380- 415/3/50	220- 240/1/50	380- 415/3/50
Compressor	Type		Twin rotary					
Outdoor fan	Motor type		DC fan					
	Number of fans		1					
Air side heat exchanger			Finned tube					
Refrigerant			R32 1.75kg					
Unit dimension (W×H×D)		mm	1385×865×523					

Packing dimension (W×H×D)		mm	1465×1035×560
Net/Gross weight		kg	134/160
Outdoor air temperature range	Cooling	°C	-5 ~ 43
	Heating	°C	-25 ~ 35
	DHW	°C	-25 ~ 43
Water side heat exchanger			Plate type
Water side connection			R5/4"
Water setting temperature range	Cooling	°C	5 ~ 25
	Heating	°C	25 ~ 65
	DHW ³	°C	20 ~ 60

Notes:

1. Relevant EU standards and legislation: EN14511; EN14825; EN50564; EN12102; (EU) No 811/2013; (EU) No 813/2013; OJ 2014/C 207/02.
2. Sound power test condition: EN12102-1
3. Maximum domestic hot water temperature 60°C is only available with TBH support.

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Outdoor unit model name			MHC-V12W /D2RN8-BE30	MHC-V12W /D2RN8- BER90	MHC-V14W /D2RN8-BE30	MHC-V14W /D2RN8- BER90	MHC-V16W /D2RN8-BE30	MHC-V16W /D2RN8- BER90
Power supply		V/Ph/Hz	380-415/3/50					
Heating A7W35	Capacity	kW	12.1	12.1	14.5	14.5	15.9	15.9
	Rated input	kW	2.44	2.44	3.15	3.15	3.53	3.53
	COP		4.95	4.95	4.60	4.60	4.50	4.50
Heating A7W45	Capacity	kW	12.3	12.3	14.1	14.1	16.0	16.0
	Rated input	kW	3.32	3.32	3.92	3.92	4.57	4.57
	COP		3.70	3.70	3.60	3.60	3.50	3.50
Heating A7W55	Capacity	kW	11.9	11.9	13.8	13.8	16.0	16.0
	Rated input	kW	3.90	3.90	4.68	4.68	5.61	5.61
	COP		3.05	3.05	2.95	2.95	2.85	2.85
Heating A-7W35	Capacity	kW	10.00	10.00	12.00	12.00	13.10	13.10
	Rated input	kW	3.33	3.33	4.21	4.21	4.85	4.85
	COP		3.00	3.00	2.85	2.85	2.70	2.70
Heating A-7W55	Capacity	kW	9.80	9.80	11.00	11.00	12.50	12.50
	Rated input	kW	4.78	4.78	5.37	5.37	6.25	6.25
	COP		2.05	2.05	2.05	2.05	2.00	2.00
Cooling A35W18	Capacity	kW	12.00	12.00	13.50	13.50	14.2	14.2
	Rated input	kW	3.04	3.04	3.74	3.74	3.94	3.94
	EER		3.95	3.95	3.61	3.61	3.61	3.61
Cooling A35W7	Capacity	kW	11.5	11.5	12.4	12.4	14.0	14.0
	Rated input	kW	4.18	4.18	4.96	4.96	5.60	5.60
	EER		2.75	2.75	2.50	2.50	2.50	2.50
Seasonal space heating energy efficiency class	Water outlet at 35°C		A+++					
	Water outlet at 55°C		A++					
SCOP	Warmer climate	35°C	6.47	6.47	6.57	6.57	6.28	6.28
		55°C	4.42	4.42	4.49	4.49	4.47	4.47
	Average climate	35°C	4.81	4.81	4.72	4.72	4.62	4.62
		55°C	3.45	3.45	3.47	3.47	3.41	3.41
	Colder climate	35°C	4.08	4.08	4.07	4.07	4.02	4.02
		55°C	3.02	3.02	3.05	3.05	3.12	3.12
SEER	Water outlet	7°C	4.90	4.90	4.85	4.85	4.67	4.67
		18°C	7.07	7.07	6.89	6.89	6.70	6.70
Sound power Level ²		dB	65	65	65	65	68	68
Rated water flow		m³/h	2.08	2.08	2.49	2.49	2.73	2.73
Water flow range		m³/h	0.7~2.5	0.7~2.5	0.7~2.75	0.7~2.75	0.7~3.0	0.7~3.0
Internal water volume		L	3.93-8.73	3.83-8.63	3.93-8.73	3.83-8.63	3.93-8.73	3.83-8.63
Backup electric heater	Capacity	kW	3	9	3	9	3	9
	Power supply	V/Ph/Hz	220- 240/1/50	380- 415/3/50	220- 240/1/50	380- 415/3/50	220- 240/1/50	380- 415/3/50
Compressor	Type		Twin rotary					
Outdoor fan	Motor type		DC fan					
	Number of fans		1					
Air side heat exchanger			Finned tube					
Refrigerant			R32 1.75kg					