



Aqua thermal Super Series



PRODUCT LINEUP



50/65/75kW



110/140kW

Hot water **65°C**

MAIN FEATURES



High reliability

- Multiple operation protection
- Alternative cycle duty/defrosting operation
- Back-up function
- Anti-corrosion protection



Comfort

- Multiple silence modes



All DC Inverter

- High efficiency for energy saving
- Quick start-up and less frequent start/stop
- Precise consumption on real load



Convenient usage

- Intelligent climate curves adjust water temperature automatically



EVI(Enhanced vapor injection) technology

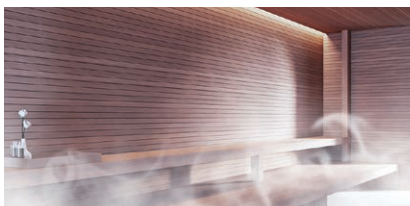
- Improve performance and expand operation range
- Maximum water temperature up to **65°C** at -10°C ambient temperature
- Minimum operation ambient temperature down to -25°C



Environment friendly

- R32 refrigerant with low GWP
- Zero impact on ozone layer
- Less carbon emission

APPLICATION



Hot water



Spacing heating

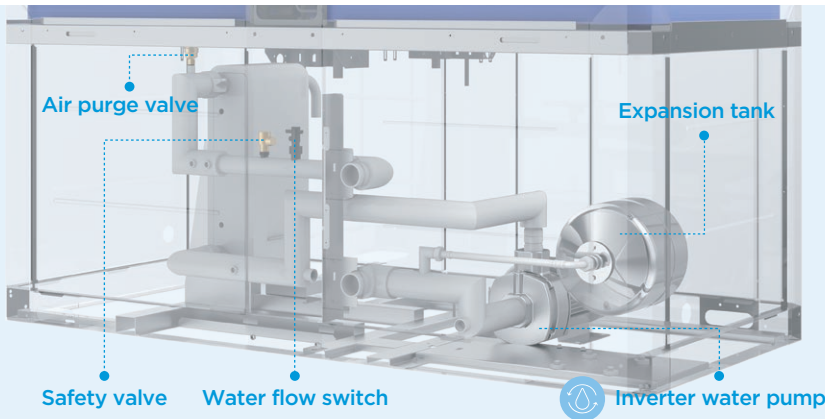
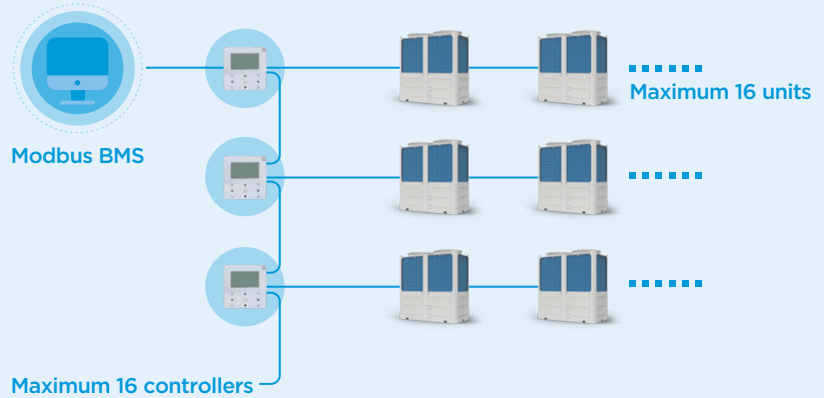


Spacing cooling

FUNCTION

Smart control

Group control for up to maximum 16 units with one controller
Maximum 16 controllers, 256 units can be connected to BMS system



Easy installation

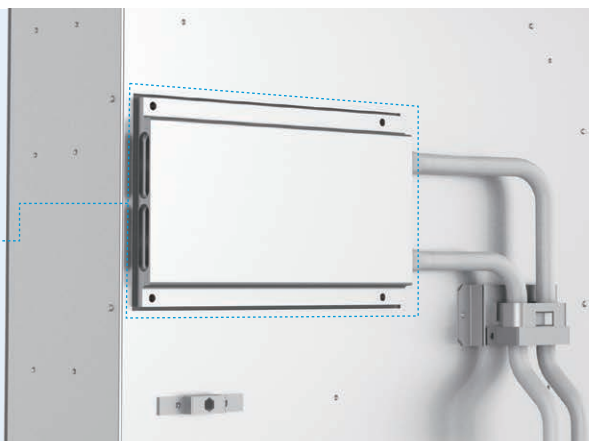
Integrated hydro module(Optional), simplify onsite installation

Maintenance friendly

USB function for program upgrade



Microchannel heat sink, reduce the heating dramatically



Refrigerant cooling technology

Reduces heating of electric control system under severe working conditions

SPECIFICATIONS

Model name			MH-SU65-RN8L	MH-SU75-RN8L	MH-SU110-RN8L	MH-SU140-RN8L
Power supply		V/Ph/Hz	380-415/3/50			
Heating (A7W65)	Capacity	kW	60	61	100	110
	Rated input	kW	26.10	26.75	42.90	50.00
	COP	/	2.30	2.28	2.33	2.20
Heating (A7W55)	Capacity	kW	64	66	106	126
	Rated input	kW	21.33	22.15	35.30	49.22
	COP	/	3.00	2.98	3.00	2.56
Heating (A7W45)	Capacity	kW	65	75	110	140
	Rated input	kW	18.30	22.06	29.90	44.73
	COP	/	3.55	3.40	3.68	3.13
Heating (A7W35)	Capacity	kW	64	77	112	142
	Rated input	kW	15.24	19.74	27.00	38.17
	COP	/	4.20	3.90	4.15	3.72
SCOP (55) average		/	3.40	3.40	3.25	3.25
SCOP (35) average		/	4.50	4.5	4.25	4.25
Cooling (A35W7)	Capacity	kW	57	70	100	130
	Rated input	kW	19.00	26.80	32.78	50.00
	EER	/	3.00	2.61	3.05	2.60
Cooling (A35W18)	Capacity	kW	76	86	128	138
	Rated input	kW	20.27	23.12	33.70	36.32
	EER	/	3.75	3.72	3.80	3.80
SEER		/	5.00		4.80	
Air side heat exchanger	Type	/	Fin coil mode			
Fan	Type	/	DC motor			
	Air flow rate	m ³ /h	22000	28500	32500	50000
Water side heat exchanger	Type	/	Plate heat exchanger			
	Water pressure drop	kPa	44	65	39	65
Refrigerant system	Refrigerant type	/	R32			
	Refrigerant charge	kg	9		15.5	
	Throttle type	/	Electronic expansion valve			
Sound power level (A7W45)		dB	80	86	80	92
Sound pressure level (1m) (A7W45)		dB(A)	64	69	64	73
Net dimensions (W×H×D)		mm	2000×1770×960		2220×2300×1135	
Packed dimensions (W×H×D)		mm	2085×1890×1030		2250×2445×1180	
Net weight		kg	440		670	
Gross weight		kg	455		690	
Water pipe connections		mm	DN50		DN65	
Operating temperature	Cooling	°C	-15 to 48			
	Heating	°C	-25 to 43			
	DHW	°C	-20 to 43			
Water outlet temperature	Cooling ¹	°C	0 to 20			
	Heating	°C	25 to 65			
	DHW(Heat pump)	°C	30 to 62			
	DHW(Heat pump+Electric heater ²)	°C	30 to 70			

Notes:

1. Antifreeze liquid is needed when water outlet temperature reaches 5°C.
2. Electric heater installed in the tank is field supplied.

SPECIFICATIONS

Model name			MH-SU65M-RN8L	MH-SU75M-RN8L	MH-SU110M-RN8L	MH-SU140M-RN8L
Power supply		V/Ph/Hz	380-415/3/50			
Heating(A7W65)	Capacity	kW	60.10	61.10	100.12	110.12
	Rated input	kW	26.24	26.89	43.27	50.37
	COP	/	2.29	2.27	2.31	2.19
Heating(A7W55)	Capacity	kW	64.15	66.15	106.32	126.37
	Rated input	kW	21.68	22.50	35.85	50.28
	COP	/	2.96	2.94	2.97	2.51
Heating(A7W45)	Capacity	kW	65.65	75.71	110.67	140.94
	Rated input	kW	19.43	23.51	31.21	47.10
	COP	/	3.38	3.22	3.55	2.99
Heating(A7W35)	Capacity	kW	64.65	77.70	113.14	142.94
	Rated input	kW	16.37	21.61	28.52	40.54
	COP	/	3.95	3.59	3.97	3.53
SCOP(55)average		/	3.36	3.36	3.23	3.23
SCOP(35)average		/	4.47	4.47	4.23	4.23
Cooling(A35W7)	Capacity	kW	56.68	69.29	99.33	129.29
	Rated input	kW	19.79	28.26	34.09	52.01
	EER	/	2.86	2.45	2.91	2.49
Cooling(A35W18)	Capacity	kW	75.30	85.07	127.26	137.06
	Rated input	kW	22.14	25.06	35.50	38.69
	EER	/	3.40	3.39	3.58	3.54
SEER		/	4.92	4.85	4.78	4.77
Air side heat exchanger	Type	/	Fin coil mode			
Fan	Type	/	DC motor			
	Air flow rate	m ³ /h	22000	28500	32500	50000
Water side heat exchanger	Type	/	Plate heat exchanger			
	Water pressure drop	kPa	44	65	39	65
Max. running current		/	46	46	90	90
Refrigerant system	Refrigerant type	/	R32			
	Refrigerant charge	kg	9		15.5	
	Throttle type	/	Electronic expansion valve			
Sound power level (A7W45)		dB(A)	83	89	83	93
Sound pressure level (1m) (A7W45)		dB(A)	64	69	64	73
Net dimensions (W×H×D)		mm	2000X1770X960		2220×2300×1135	
Packed dimensions (W×H×D)		mm	2085X1890X1030		2250×2445×1180	
Net weight		kg	475		746	
Gross weight		kg	490		767	
Water pipe connections		/	DN50		DN65	
Operating temperature	Cooling	°C	-15 to 48			
	Heating	°C	-25 to 43			
	DHW	°C	-20 to 43			
Water outlet temperature	Cooling1	°C	0 to 20			
	Heating	°C	25 to 65			
	DHW(heat pump)	°C	30 to 62			
	DHW (Heat pump+ Electric heater ²)	°C	30 to 70			

Notes:

1. Antifreeze liquid is needed when water outlet temperature reaches 5°C.
2. Electric heater installed in the tank is field supplied.

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