



M-Thermal Mono/Split A Series















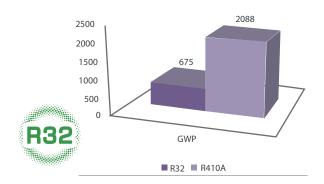






R32 environmental refrigerant

- Higher heat transfer coefficient and better performance
- Less charged volume is needed in the system
- Less costs and easier to get R32
- Lower GWP and carbon emission (GWP: Global Warming Potential)



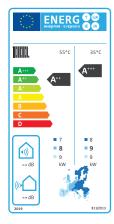
Inverter system design

All the units are equipped with DC compressor, DC fan motor, DC pump, which allows precise control of motor speed, ensuring that only the power necessary to perfectly match the real load is used and energy saving.



Powerful heating with high efficiency

- No capacity attenuation at -10°C ambient temperature
- Operation range down to -25°C
- ❖ Maximum LWT reach 65°C
- ❖ Single point maximum COP 5.20
- SCOP 5.21, Energy efficiency level: A+++







Structure innovation

- Single fan compact structure design for big capacity with
- ❖ 270mm thinnest size in industry for indoor unit, which is ideal transformation plan for gas burner and convenient for replacing



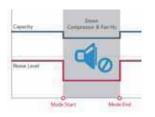


Single fan structure

Greatly reduces noise!

Extremely silent

- Two level of silent mode provides more comfort
- ❖ Silent mode minimum sound power level 53dB





Multi-function wired controller and APP control

- ❖ Multiple languages meet customer needs
- Modbus protocol and network flexibility
- Maximum 6 units controlled by one controller and automatic addressing; available on 31 May, 2020
- Holiday away & Holiday home makes life convenient
- ❖ Built-in wifi module supports APP control



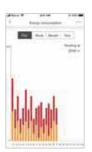




Through APP, user can

- Check the running state of heat pump, zone switch, operation mode and temperature.
- Set switch, operation mode and temperature of each zone
- * Know energy consumption and energy-saving suggestion





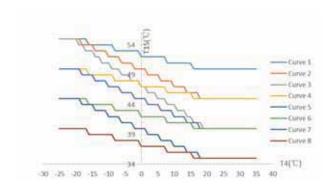
Smart Grid function

Heat pump adjusts the operation according to different electrical signals. Power consumption of the system can be automatically adjusted according to the peak and valley power to reduce the power consumption to the



Climate curve function

Totally there are 32 climate correlation curves for choice and one custom curve is optional. Once the curve is selected, the unit set the outlet water temperature automatically according to the outdoor ambient temperature, which realizes intelligent control.



Zones control more flexibility

- ❖ More accurate low temperature area temperature control
- DC water pump accurate control of water flow and electromagnetic three-way valve cycle regulation to achieve stable low temperature heating

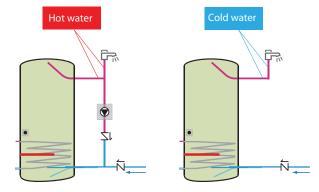
USB function

- Realize setting transmission between wired controllers
- Realize program upgrade with one key and save the time of on-site installation



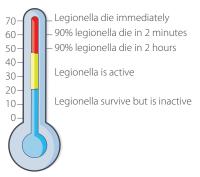
DHW pump function

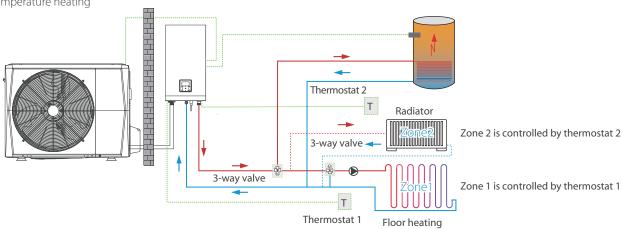
The DHW pump function is used to return water in the water pipe net to the hot water tank according to set timer. With the function, when hot water is needed, hot water will flow out from tap immediately without waiting time.



Disinfect function

The disinfect function is used to kill legionella by 60-70 $^{\circ}$ C water to ensure the health and safety.





Hydronic adapter board is optional. With the help of hydronic box adapter board, maximum 8 thermostats for 8 rooms are available to control heat pump, which greatly improves the operation convenience.

Mode combination

There are 4 single operation mode (Cool, Heat, DHW, Auto) and 3 combined operation mode to meet different demands of using.



Auto & DHW mode

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∆13 °°	*	38 ℃
1		

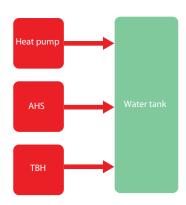
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Cool & DHW mode

Heat & DHW mode

Fast DHW function

FAST DHW function is used to force the system to operate in DHW mode when hot water is needed urgently.

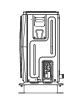


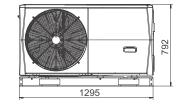
Additional control

- Remote control for ON/OFF, TBH, AHS
- ♣ Balance tank temperature sensor (field supplied) ensures accurate water temperature control

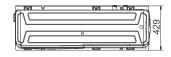
Unit Dimensions (Unit: mm)

Mono 4~6kW

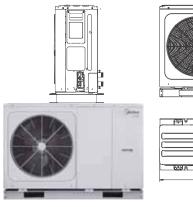


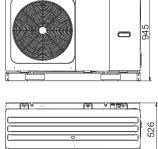




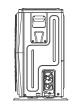


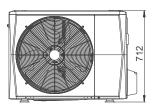
Mono 8~16kW



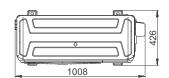


Split outdoor unit 4~6kW

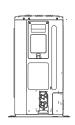


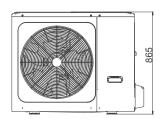




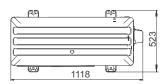


Split outdoor unit 8~16kW

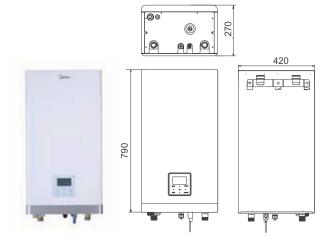








Split indoor unit



Specifications

Mono

Outdoor unit mod	V4W/ D2N8-B	V6W/ D2N8-B	V8W/ D2N8-B	V10W/ D2N8-B	V12W/ D2N8-B	V14W/ D2N8-B	V16W/ D2N8-B	V12W/ D2RN8-B	V14W/ D2RN8-B	V16W/ D2RN8-B			
Power supply		V/Ph/Hz	220-240/1/50 380-4								380-415/3	L15/3/50	
	Capacity	kW	4.20	6.35	8.40	10.0	12.1	14.5	15.9	12.1	14.5	15.9	
Heating ¹	Rated input	kW	0.82	1.28	1.63	2.02	2.44	3.15	3.53	2.44	3.15	3.53	
	COP		5.10	4.95	5.15	4.95	4.95	4.60	4.50	4.95	4.60	4.50	
	Capacity	kW	4.30	6.30	8.10	10.0	12.3	14.1	16.0	12.3	14.1	16.0	
Heating ²	Rated input	kW	1.13	1.70	2.10	2.67	3.32	3.92	4.57	3.32	3.92	4.57	
	COP		3.80	3.70	3.85	3.75	3.70	3.60	3.50	3.70	3.60	3.50	
	Capacity	kW	4.40	6.00	7.50	9.50	11.9	13.8	16.0	11.9	13.8	16.0	
Heating ³	Rated input	kW	1.49	2.03	2.36	3.06	3.90	4.68	5.61	3.90	4.68	5.61	
	COP		2.95	2.95	3.18	3.10	3.05	2.95	2.85	3.05	2.95	2.85	
	Capacity	kW	4.50	6.50	8.30	9.90	12.00	13.50	14.90	12.00	13.50	14.90	
Cooling ⁴	Rated input	kW	0.82	1.35	1.64	2.18	3.04	3.75	4.38	3.04	3.75	4.38	
	EER		5.50	4.80	5.05	4.55	3.95	3.60	3.40	3.95	3.60	3.40	
	Capacity	kW	4.70	7.00	7.45	8.20	11.5	12.4	14.0	11.5	12.4	14.0	
Cooling ⁵	Rated input	kW	1.36	2.33	2.22	2.52	4.18	4.96	5.60	4.18	4.96	5.60	
	EER		3.45	3.00	3.35	3.25	2.75	2.50	2.50	2.75	2.50	2.50	
Seasonal space	Water outlet at 35°C	class	A+++										
heating energy efficiency class ⁶	Water outlet at 55°C	class					,	A++					
2.61	Type(GWP)		R32(675)										
Refrigerant	Charged volume	kg	1	.40	1	.40			1	1.75			
Sound power Level	,	dB	55	58	59	60	65	65	68	65	65	68	
Unit dimension (W>	:H×D)	mm	1295×	1295×792×429 1385×945×526									
Packing dimension	(W×H×D)	mm	1375x9	965x475				1465	5x1120x560				
Net/Gross weight		kg	98/121 121/148 144/170 160/188										
Outdoor air	Cooling	°⊂	-5~43										
temperature range	Heating	°⊂	-25~35										
	DHW	°C	-25~43										
Water side heat exc	hanger						Pla	te type					
Water pump	Max. pump head	m	9										
Water side connecti	on	mm	F	R1"				R	5/4"				
Backup E-heater ⁸	Standard mounted	kW	/										
	Optional	kW	3	3	3/9	3/9	3/9	3/9	3/9	3/9	3/9	3/9	
	Capacity steps		1	1	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	
	Power supply 3kW 9kW	V/Ph/Hz	220-240/1/50										
			380-415/3/50										
	Cooling	°C					5	~25					
Water outlet temperature range	Heating	°C	25~65										
temperature range	DHW (tank)	°C	30~60										

- 1. Evaporator air in 7°C, 85% R.H., Condenser water in/out 30/35°C 2. Evaporator air in 7°C, 85% R.H., Condenser water in/out 40/45°C 3. Evaporator air in 7°C, 85% R.H., Condenser water in/out 47/55°C
- 4. Condenser air in 35°C. Evaporator water in/out 23/18°C 5. Condenser air in 35°C. Evaporator water in/out 12/7°C
- 6. Seasonal space heating energy efficiency class testes in average climate general conditions.
- 7. Testing standard: EN12102-1.
- 8. Backup electric heater is built into all models. For three phase type backup electric heater, 3/6kW can be achieved by changing DIP switch when heat pump is equipped with 9kW. 9. Relevant EU standards and legislation: EN14511; EN14825; EN50564; EN12102; (EU) No 811/2013; (EU) No 813/2013; OJ 2014/C 207/02:2014.

Split

Outdoor unit model name MHA-			V4W/D2N8-B	V6W/D2N8-B	V8W/D2N8-B	V10W/D2N8-B	V12W/D2N8-B	V14W/D2N8-B	V16W/D2N8-B	V12W/D2RN8-B	V14W/D2RN8-B	V16W/D2RN8-B		
Indoor unit model name			HB-A60/CGN8-B		HB-A100/CGN8-B				HB-A160/CGN8-B					
	Capacity		kW	4.25	6.20	8.30	10.0	12.1	14.5	16.0	12.1	14.5	16.0	
Heating ¹	Rated input		kW	0.82	1.24	1.60	2.00	2.44	3.09	3.56	2.44	3.09	3.56	
	COP			5.20	5.00	5.20	5.00	4.95	4.70	4.50	4.95	4.70	4.50	
	Capacity		W	4.35	6.35	8.20	10.0	12.3	14.2	16.0	12.3	14.2	16.0	
Heating ²	Rated input		W	1,14	1.69	2.08	2.63	3.24	3.89	4.44	3.24	3.89	4.44	
	COP		l	3.80	3.75	3.95	3.80	3.80	3.65	3.60	3.80	3.65	3.60	
	Capacity		W	4.40	6.00	7.50	9.50	12.0	13.8	16.0	12.0	13.8	16.0	
Heating ³	Rated input		W	1.49	2.00	2.36	3.06	3.87	4.60	5.52	3.87	4.60	5.52	
3	COP			2.95	3.00	3.18	3.10	3.10	3.00	2.90	3.10	3.00	2.90	
	Capacity		W	4.50	6.55	8.40	10.00	12.00	13.50	14.90	12.00	13.50	14.90	
Cooling ⁴	Rated input		W	0.81	1.34	1.66	2.08		3.75			3.75	4.38	
Coomig	EER		V V	5.55	4.90	5.05	4.80	3.00 4.00	3.60	4.38	3.00	3.60		
	Capacity		W	4.70					12.7	3.40	4.00		3.40	
Cooling ⁵	Rated input				7.00	7.40	8.20	11.6		14.0	11.6	12.7	14.0	
Cooling			W	1.36	2.33	2.19	2.48	4.22	4.98	5.71	4.22	4.98	5.71	
Seasonal space		Water outlet at 35°C cla		3.45	3.00	3.38	3.30	2.75	2.55	2.45	2.75	2.55	2.45	
heating energy	Water outlet at 55		class	A+++										
efficiency class ⁶ OUTDOOR UNIT	water outlet at 32		class					A	++					
Power supply		V/Ph/Hz					380-415/3/50							
	Type(GWP)		¥/110/11Z	220-240/1/50 380-415/3/50 R32(675)										
Refrigerant	**		kg	1.50 1.65 1.84										
Sound power Level	8		dB(A)	56	58	59	60	64	65	68	64	65	68	
Unit dimension (W	×H×D)		mm	1008	1008×712×426 1118×865×523									
Packing dimension	(W×H×D)		mm	1065	×800×485				1	180×890×560				
Net/Gross weight			kg	5	58/64 77/88 96/110 112/125									
Outdoor air	Cooling		°C	-5~43										
temperature range	Heating		°C	-25~35										
	DHW		°C					-25	~43					
INDOOR UNIT														
Unit dimension (W×H×D) mm			420x790x270											
Packing dimension (WxHxD) mm			525x1050x360											
Net/Gross weight	Max. pump head		kg	37/43 39/45										
Water pump	m kW	9												
			kW	3/9										
Backup E-heater ⁹	Capacity steps		1/3											
buckup E ricates	3kW			220-240/1/50										
	Power supply	r supply 9kW V/F		380-415/3/50										
	Cooling °C		°C	5~25										
Water outlet temperature range	Heating		°C	25~65										
	DHW (tank)		°C	30~60										
Sound power level ⁸ dB(A)			dB(A)	38	38	42	42	43	43	43	43	43	43	

- Notes:

 1. Evaporator air in 7°C, 85% R.H., Condenser water in/out 30/35°C

 2. Evaporator air in 7°C, 85% R.H., Condenser water in/out 40/45°C

 3. Evaporator air in 7°C, 85% R.H., Condenser water in/out 47/55°C

 4. Condenser air in 35°C. Evaporator water in/out 23/18°C

 5. Condenser air in 35°C. Evaporator water in/out 12/7°C

 6. Seasonal space heating energy eciency class testes in average climate general conditions.
- 7. Relevant EU standards and legislation: EN14511; EN14825; EN50564; EN12102; (EU) No 811/2013; (EU) No 813/2013; OJ 2014/C 207/02:2014
- 8. Testing standard: EN12102-1
- 9. For three phase type backup electric heater, 3/6kW can be achieved by changing DIP switch when hydronic box is equipped with 9kW.

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Note: Product specifications change from time to time as product improvements and developments are released and may vary from those in this document.

GD MIDEA Heating & Ventilating Equipment Co. Ltd participates in the ECP programme for LCP-HP. Check ongoing validity of certificate:www.eurovent-certification.com