



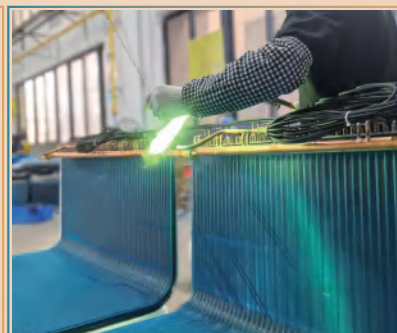
# Answer Technology

*The heat pump & wholehouse solutions provider*



# ABOUT US

## Introduction

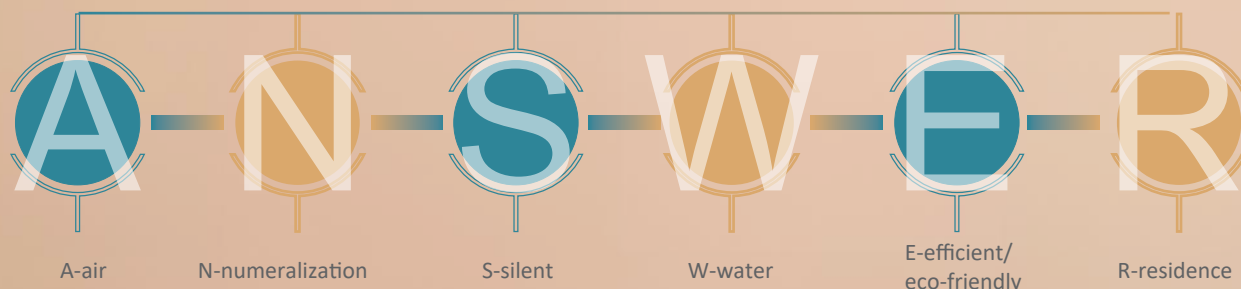


Guangdong Answer Technology Co., Ltd is a professional technology company specializing in the research, development, production, and sales of heat pump equipment.

The company is committed to jointly creating eco-friendly living environments and aims to become a professional heat pump supplier and service provider that provides low-carbon, intelligent, and high-efficient products.

Established in Foshan, Guangdong Province, our company now boasts a state-of-the-art water system laboratory, simulation user room, pilot workshop, electrical assembly workshop, and a series of supporting workshops. With our founders and core team members coming from leading HVAC companies and related businesses, we have amassed a wealth of technical expertise and support resources to meet our customers' diverse needs.

## What is Answer Technology?

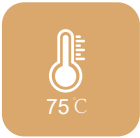


## AS thermal-i series R290 mono/package

### Main features



- **ECO-FRIENDLY**
  - R290 natural refrigerant with Low GWP
  - No damage to the ozone layer and no greenhouse effect



- **HIGH EFFICIENT**
  - R290 has excellent thermal characteristics
  - Max. Water Outlet Temperature could reach up to 75 °C



- **SAFE & RELIABLE**
  - E-box isolation design
  - E-heater with explosion proof design
  - Refrigerant leak separation valves



- **SMART**
  - APP+ WIFI Control
  - Remote warning and diagnosis



### Measures to Lower Noise

#### 2-Level noise control via software

- Silent Function for different periods

#### 2-stage noise reduction

- Double silencing technique
- Less Vibration



#### Multi-component double-layer sound insulation cotton design

- Achieve noise absorption and isolation of the double-layer effect



#### Quire & Low noise Blade design

- 608mm fan size with low speed design
- 2. Aerodynamics blonic low noise design



#### Pipeline flexible design

- Reduce the vibration & radiation of compressors and pipelines

pipelines



# PRODUCT

## High Reliability

### Multi-layer fully sealed design E-box

- Ensure reliable electrical sealing and high power output.
- Ensure strong cooling and heating demand.

### Circuit multi-layer protection design

- PCB control logic safeguards against overloads, including current, voltage, temperature, and other thresholds.
- PCB hardware safeguards include pressure overload protection.

### Terminal fully sealed design

- Ensure reliable electrical sealing and high power output.
- Ensure strong cooling and heating demand.

### E-heater explosion-proof design

- Reserve space for Built-in electric heater
- 3/6/9KW could be customized
- Explosion proof design

### Optional microbubble separator with multi-layer isolation protection

- Safe and Reliable
- In case of leakage, the refrigerant can be discharged to the outside.

### High precision pressure sensor

- Equipped with high and low pressure sensors, the system enhances cooling control accuracy and fan motor efficiency

## Internet of Things (IoT)

01

### User-friendly

- USB/SD card/OTA update
- Remote on/off
- Wifi Control

02

### Enablement

- Cloud Service of Distributors



## Specifications

Outdoor unit			AMH-8R2	AMH-10R2	AMH-12R2	AMH-14R2	AMH-16R2	AMH-12TR2	AMH-14TR2	AMH-16TR2
Heating A7W35	Capacity	kW	8.3	10	12.3	14.2	15.4	12.2	14.3	15.4
	Power input	kW	1.60	2.06	2.47	3.05	3.39	2.51	3.13	3.46
	COP	W/W	5.20	4.85	4.98	4.65	4.54	4.86	4.57	4.45
Heating A7W45	Capacity	kW	8.2	10	12.2	14.3	15.5	12.1	14.4	15.6
	Power input	kW	2.13	2.70	3.14	3.90	4.31	3.12	3.92	4.37
	COP	W/W	3.85	3.70	3.88	3.67	3.60	3.88	3.67	3.57
Heating A7W55	Capacity	kW	7.65	9.5	12.4	14.3	15.6	12.4	14.5	15.7
	Power input	kW	2.39	3.04	3.89	4.63	5.17	3.84	4.63	5.15
	COP	W/W	3.20	3.12	3.19	3.09	3.02	3.23	3.13	3.05
Heating A2W35	Capacity	kW	7.1	8.2	11.0	12.3	13.2	11.0	12.3	13.3
	Power input	kW	1.84	2.25	2.97	3.49	4.01	3.00	3.48	4.01
	COP	W/W	3.85	3.65	3.70	3.52	3.29	3.67	3.53	3.32
Heating A-7W35	Capacity	kW	7.0	8	10.9	12.1	13.2	10.7	11.8	13.0
	Power input	kW	2.33	2.81	3.76	4.29	4.84	3.78	4.31	4.92
	COP	W/W	3.00	2.85	2.90	2.82	2.73	2.83	2.74	2.64
Cooling A35W18	Capacity	kW	8.3	10.0	12.4	14.2	16.3	12.4	14.2	16.2
	Power input	kW	1.63	2.10	2.66	3.21	3.89	2.64	3.18	3.88
	EER	W/W	5.10	4.75	4.67	4.42	4.19	4.69	4.47	4.18
Cooling A35W7	Capacity	kW	7.4	8.5	11.6	13.3	14.5	11.40	13.2	14.6
	Power input	kW	2.18	2.62	3.61	4.45	5.05	3.61	4.43	5.05
	EER	W/W	3.40	3.25	3.21	2.99	2.87	3.16	2.98	2.89
Net dimension(W"H"D)		mm	1155*950*500							
Packing dimension(W"H"D)		mm	1250*1125*560							
Net weight		kg	116			134			155	
Gross weight		kg	123			141			162	
Refrigerant	Type/GWP	/	R290/3							
	Charge	kg	1.10			1.35			1.35	
Seasonla space heating energy efficiency	Water outlet @35°C	class	A+++							
	Water outlet @55°C	class	A++							
Sound power level		dB(A)	58	60	65	65	68	65	65	68
Sound power level at 1m		dB(A)	45	47	52	53	55	52	53	55
Operating ambient temperature	Cooling	°C	-5~48							
	Heating	°C	-25~35							
	DHW	°C	-25~43							
Outlet water setting temperature	Cooling	°C	5~25							
	Heating	°C	25~75							
Water tank setting temperature	DHW	°C	30~60							

The final parameters of the product are subject to the state when the product is put into production and released.

### Notes:

1. Condenser air in 35 °C. Evaporator water in/out 23/18 °C.
2. Condenser air in 35 °C. Evaporator water in/out 12/7 °C.
3. Evaporator air in 7 °C, 85% R.H., Condenser water in/out 30/35 °C.
4. Evaporator air in 7 °C, 85% R.H., Condenser water in/out 40/45 °C.
5. Evaporator air in 7 °C, 85% R.H., Condenser water in/out 47/55 °C.
6. Seasonal space heating energy efficiency class tested in average climate general conditions.
7. Relevant EU standards and legislation: EN14511; EN14825; EN12102-1 and so on.

# PRODUCT

## AS thermal-i series R32 split



### • UNIQUE APPEARANCE

- The "no screw" design ensures steady performance and safety structure.
- Customizable appearance enhances brand identity.



### • EXCELLENT PERFORMANCE

- Energy efficiency level: A+++, no capacity attenuation at -15°C(Partial model).



### • LOW NOISE

- Optimized wind deflector, large fans and optimal control of software ensure low noise



### • INTELLIGENT

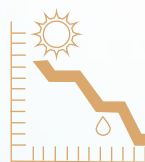
- APP+ WIFI Control
- Remote warning and diagnosis



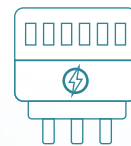
Outgoing function



Economic control operation



Weather curve



Energy Statistics



Solar kit for DHW



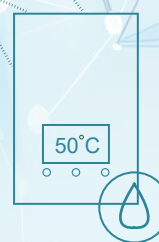
Thermostatic swimming pool function



Household energy storage



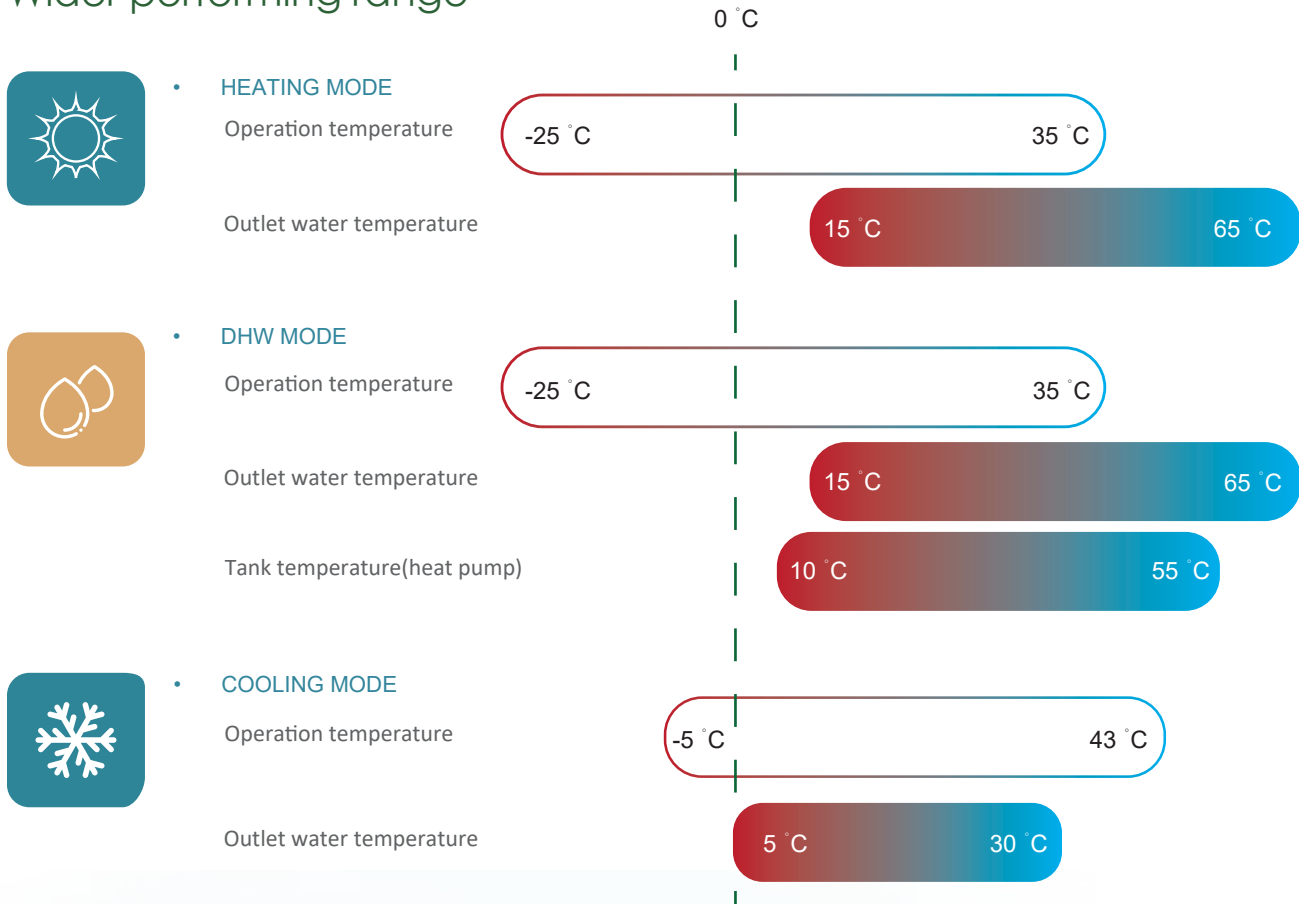
Dual Zones Control



Intelligent control of the gas boilers



## Wider performing range



## Preferred Quality Supplier



### DC inverter Compressor

- Famous-brand high efficiency DC inverter compressor
- Heat pump special R32 twin-rotary-compressor
- Wider performing range
- Higher reliability



### Plate heating- exchanger

- Efficient sheet design reinforcing heat exchange capacity.
- Low fouling coefficient enabling long-lasting and efficient performance.
- Miniaturized size ensuring lower refrigerant charge volume.
- High pressure bearing capacity guaranteeing safer and more reliable performance.



### High-power DC motor

- External DC fan driver
- 15mm large motor shaft
- 200W high power motor
- 20Pa static pressure design enabling the external air duct connection suitable for various installing conditions.
- In low ambient temperature frosting conditions, the drop of fan volume is small.



### Main control board

- Moistureproof and dustproof
- Quick push-in terminals
- Safe low voltage design



### Independent design



### Shielded pumps

- 9 meters pump head
- DC inverter water pump
- Infinitely variable speed adjustment
- High efficiency energy-saving
- Silent operation



### High efficiency finned- tubes heat exchanger

- 7mm wide hydrophilic aluminum fin
- More beneficial to improving the capacity of the unit under low ambient temperature
- Faster defrosting



**Self-made**

# PRODUCT

Outdoor unit model name			AH-8R1	AH-10R1	AH-12R1	AH-14R1	AH-16R1	AH-12TR1	AH-14TR1	AH-16TR1
Indoor unit model name			AHB-10R1		AHB-16R1					
Cooling1	Capacity	kW	8.4	10.1	12.2	13.5	15.5	12.2	13.5	15.5
	Power input	kW	1.68	2.1	2.98	3.46	4.29	2.98	3.46	4.29
	EER	W/W	5	4.8	4.1	3.9	3.61	4.1	3.9	3.61
Cooling2	Capacity	kW	7.4	8.2	11.6	12.7	14.1	11.6	12.7	14.1
	Power input	kW	2.24	2.56	4.22	4.89	5.64	4.22	4.89	5.64
	EER	W/W	3.3	3.2	2.75	2.6	2.5	2.75	2.6	2.5
Heating3	Capacity	kW	8.3	10	12.1	14.6	16	12.1	14.6	16
	Power input	kW	1.6	2.02	2.44	3.11	3.56	2.44	3.11	3.56
	COP	W/W	5.2	4.95	4.95	4.7	4.5	4.95	4.7	4.5
Heating4	Capacity	kW	8.25	10	12.2	14.2	16	12.2	14.2	16
	Power input	kW	2.09	2.63	3.21	3.89	4.44	3.21	3.89	4.44
	COP	W/W	3.95	3.8	3.8	3.65	3.6	3.8	3.65	3.6
Heating5	Capacity	kW	7.6	9.6	12.1	14	16	12.1	14	16
	Power input	kW	2.38	3.05	3.88	4.59	5.52	3.88	4.59	5.52
	COP	W/W	3.2	3.15	3.12	3.05	2.9	3.12	3.05	2.9
Seasonal space heating energy efficiency	Water outlet @ 35°C	class	A+++							
	Water outlet @ 55°C	class	A++							
Sound power level		dB(A)	58	60	65	65	68	65	65	68
OUTDOOR UNIT										
Power Supply		V/Ph/H z	220~240/1/50					380~415/3/50		
Outdoor air temperature range	Cooling	°C	-5~43							
	Heating	°C	-25~35							
	DHW	°C	-25~35							
Net/Package size (W*H*D)		mm	1047*950*500/1130*1105*570							
Net/gross weight		kg	84/97		102/108			118/124		
Water pump	Max. pump head	m	9							
Pipe diameter	Liquid pipe/Gas pipe	mm	9.52/16							
Refrigerant	Type/GWP		R32/675							
	charging	kg	1.6		1.84					
Additional refrigerant	chargment	g/m	38							
	Min. pipe length	m	2							
Connection method			flare							
Between indoor and outdoor unit	Height difference	m	20							
	Pipe length range	m	30							
INDOOR UNIT										
Water temperature setting range	Cooling	°C	5~25							
	Heating	°C	25~65							
	DHW	°C	20~60							
	Swim Pool	°C	20~45							
Net/Package size (W*H*D)		mm	430*900*235/545*1050*290							
Net/gross weight		kg	36/42		38/44					
Water pump	Max. pump head	m	9							
Pipe diameter	Liquid pipe/Gas pipe	mm	9.52/16							
Water side connection	Inlet		r1"							
	Outlet		r1"							
Backup heater	Standard mounted	kW	0							
	Optional	kW	3 /6							
	Capacity steps		3							
	Power supply (3KW)	V/Ph/H z	220~240/1/50							
	Power supply (6KW)		220~240/1/50							
	Sound power level		dB(A)	42		43				

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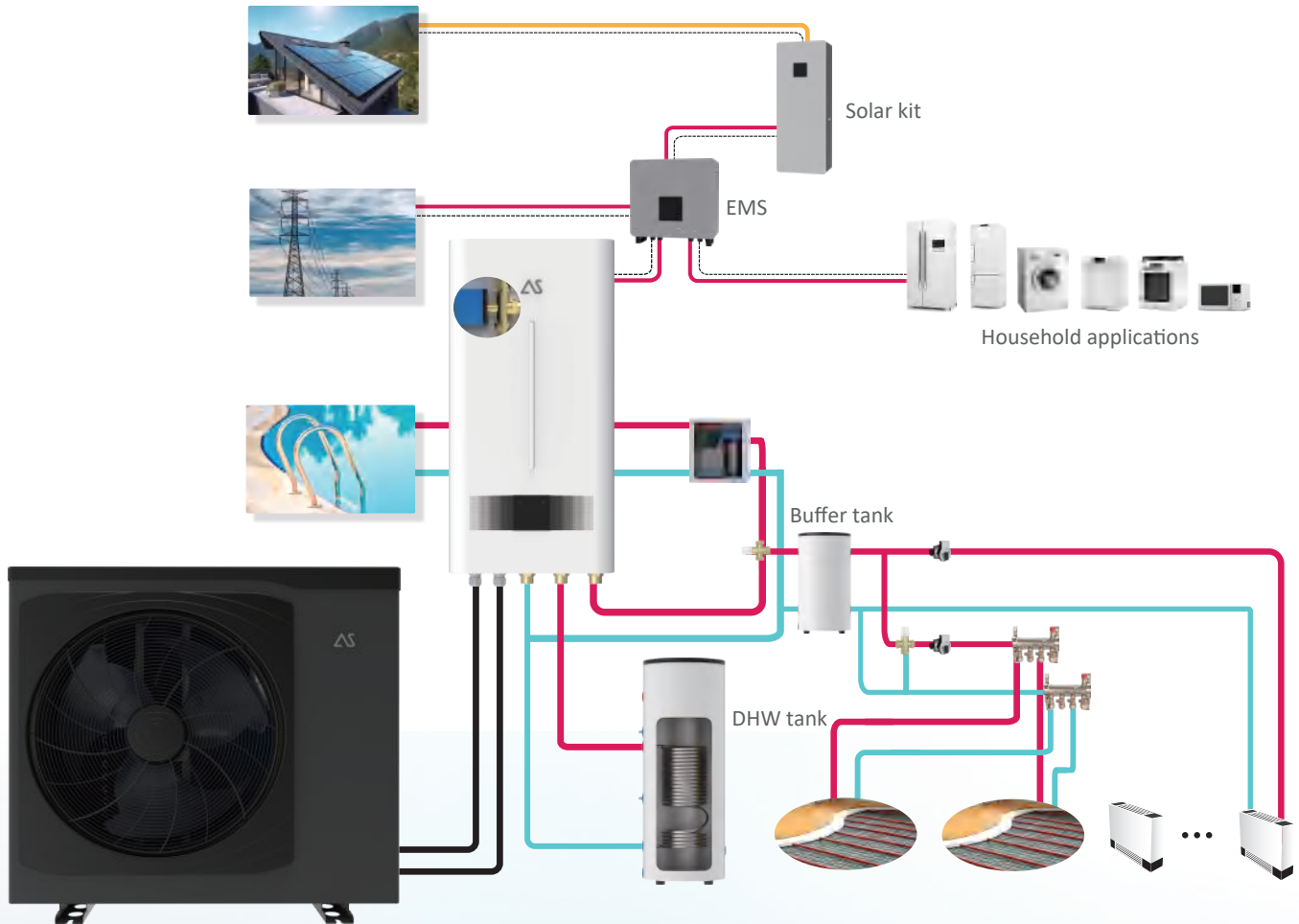
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## Solutions

### Wholehouse solution



### Way of Cooperation

DEEP CUSTOMIZATION

SKD SOLUTION

JOINT DEVELOPMENT

MUTUAL INVESTMENT





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