



2023-2024

# Air to Water **Heat Pump** Product Catalog

2023-2024 Hetapro Heat Pump Product Catalog



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# ECO Solution



To create green and comforts





## ABOUT HETAPRO HVAC

Foshan Hetapro HVAC Equipment Co., Ltd. is one of the High-end heat pump solution provider in China. Hetapro HVAC is mainly responsible for the production, R&D and sales of heat pump water heaters, modular chillers, and high-temperature commercial heat pumps. The factory base is located in Huangpu Industrial Zone, Guangzhou, Guangdong, with a superior geographical location. The factory covers an area of 40000 square meters and consists of four large production workshops, four heat pump test laboratories, two grant warehouses with loading and unloading platforms.

With the support from Devotion Group, Hetapro heat pump has achieved rapid development in recent years. It has successively launched the heat pump Thermax series, includes R32 Cooling heating and DHW heat pump with both split and monoblock type, R290 monoblock heat pump with 75°C hot water ; also the R32 DC inverter swimming pool Poolar series, as well as R32 DC inverter commercial hot water Commax series and R32 DC inverter modular chiller Vandin series, which have been recognized in the heating field of business globally.



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Rijksdienst voor Ondernemend  
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CE Certified



EMC Certified



MCS Certified



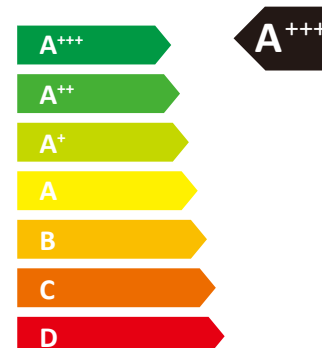
RoHS Certified



Smart Grid Ready



Keymark Certified

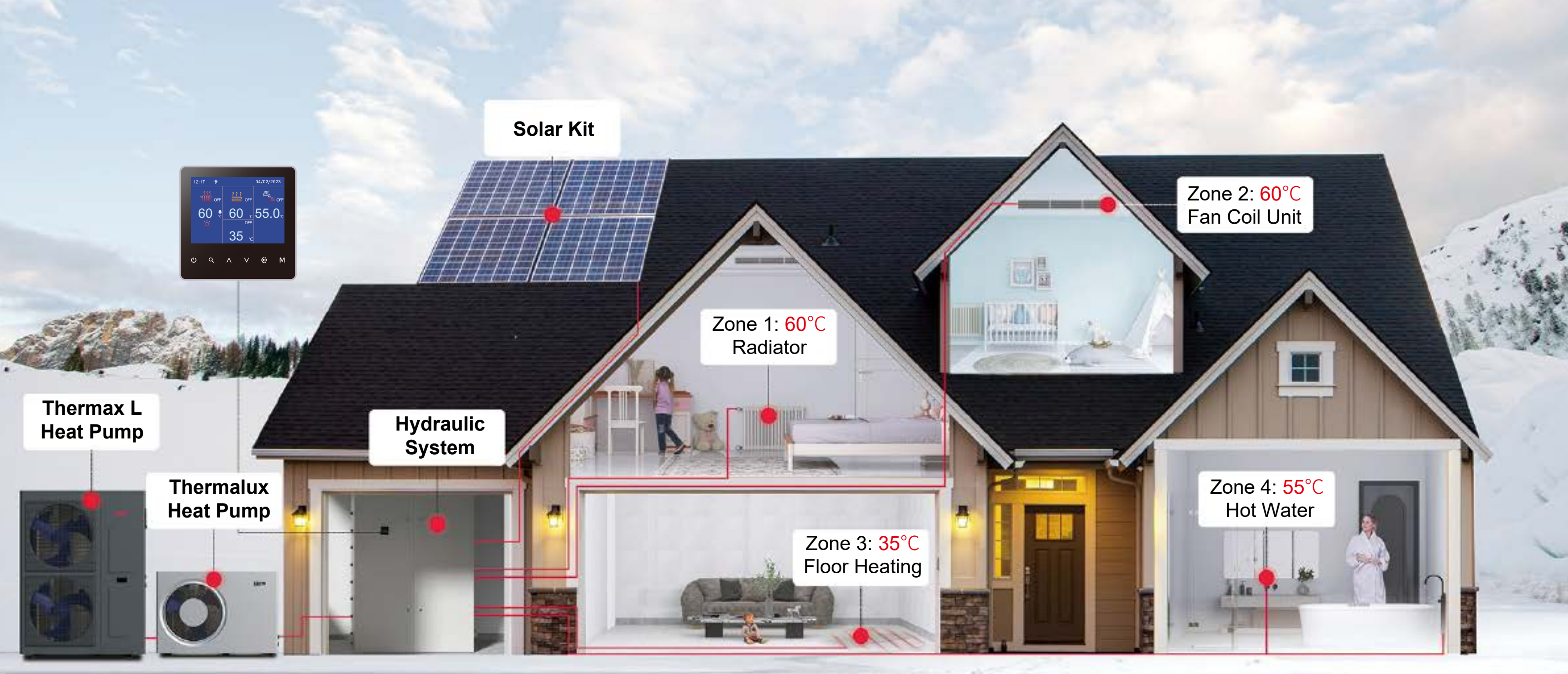


ERP Energy Labeling

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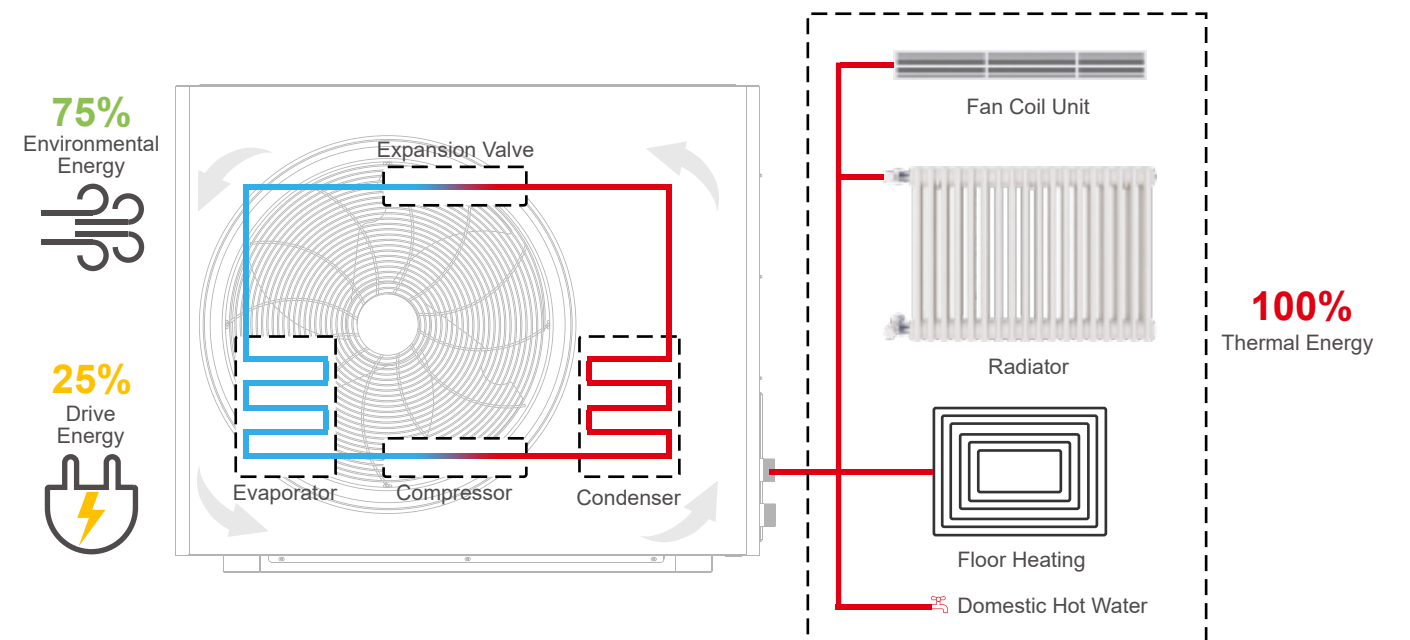
## What is a Heat Pump?

Heat pump water heater is a kind of high-efficiency and energy-saving hot water equipment. It adopts advanced heat pump technology to convert low-temperature heat in the air into high-temperature heat energy, and provides users with a large amount of constant-temperature hot water. Heat pump water heaters bring comfort and convenience to your life.

## Hetapro Thermax Heat Pump

Hetapro Thermax Air to Water Heat Pump is a sustainable, low-carbon heating solution for your home. While most other heating systems rely on fossil fuels, Hetapro utilizes renewable sources of energy to generate heat by combining 25% electricity and 75% outside air, making Thermax heat pump a green alternative to your old boiler.

## How a Heat Pump works?





# Products Overview

## Thermax Series

Thermax series is one of the new high-efficiency heat pump triple supply products under Hetapro, which includes two installation forms: MONO and Split. MONO also includes MONO A basic type series, MONO B electric auxiliary heat low temperature operation series, and MONO L high capacity low temperature operation series.



### R32 MONO A



**Featured Highlights**

- GMCC R32**  
GMCC R32 DC inverter compressor
- 25°C(-13°F)**  
Continuous operation as cold as -25°C
- 60°C(140°F)**  
Powerful heating with leaving water temp. up to 60°C

### R32 MONO B



Unibody anodized aluminum panel

**Featured Highlights**

- 3kW~9kW PTC**  
Optional Heatwell electric auxiliary heating
- 3.5-inch Controller**  
3.5-inch color LCD touch screen smart controller
- WIFI, 4G, APP**  
Support for remote control of mobile APP

### R32 MONO L



**Featured Highlights**

- Mitsubishi Compressor**  
Mitsubishi R32 DC inverter twin rotary compressor
- Large Capability Range**  
22kw / 26kw / 30kw / 35kw
- SG Ready**  
SG ready automatic matching smart grid control
- AI Defrosting**  
Multi level intelligent defrosting system ensures uninterrupted machine operation
- Certificates**  
Erp A+++, CE, EMC, Keymark, MCS, Rohs

### R32 SPLIT



**Featured Highlights**

- 9m Pipe**  
Split and flexible installation, supporting 9m copper pipe connection
- <1.8KG Refrigerant**  
The R32 refrigerant filling amount should not exceed 1.8kg, which meets the standard

# Products Overview

## Thermalux Series

Thermalux is the latest high-end high-efficiency triple heat pump series of Hetapro in 2023, which uses low GWP R290 refrigerant and GMCC EVI full DC inveter twin rotary compressor.



### R290 MONO

6KW MINI CASE

**NEW**



#### Featured Highlights

##### GMCC R290

GMCC R290 DC inverter twin rotary compressor

##### 6db noise reduction

GMCC precision frequency control silent R290 heat pump compressor achieves noise reduction in sensitive frequency bands and low frequency noise reduction of up to 6db.

##### GPW=3

R290 refrigerant gas has a lower Global Warming Potential (GWP) index than other gases. Specifically, the GWP usage of R290 refrigerant gas is 3 while R32 is 657, and R410A is 2088.

##### EVI

Enhanced Vapor Injection(EVI) technology can provide higher performance and higher heating energy output.

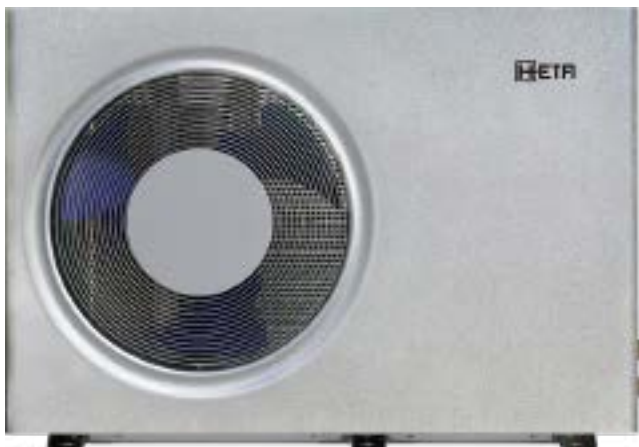
##### -35°C(-31°F)

Continuous operation as cold as -35°C

##### 75°C(167°F)

Powerful heating with leaving water temp. up to 75°C

10KW / 12KW



## Poolar Series

The Poolar series is a flagship pool heat pump product under Hetapro. The Poolar series can cover swimming pools of 50-500 square meters, with single modules ranging from 7kw to 28kw.



#### Featured Highlights

##### R32

GMCC R32 DC inverter Compressor

##### EEV

EEV control, precise and stable

##### Anti-Corrosion

Spiral titanium tube, high efficiency

## Hydraulic System

The Hydraulic Mono is an all-in-one system that includes a water tank, buffer tank, and expansion tank. This eliminates the need for separate water system installations, making it a convenient option for brand owners and distributors.

**NEW**



#### Featured Highlights

##### Integrated Water System

Streamlined Installation, just connect the water pipe to use

##### 250L

Domestic hot water tank

##### 60L

Buffer tank

##### 4 Doors

Dual sided four door universal design



# Air to Water Heat Pump



# ATW Heat Pump Features

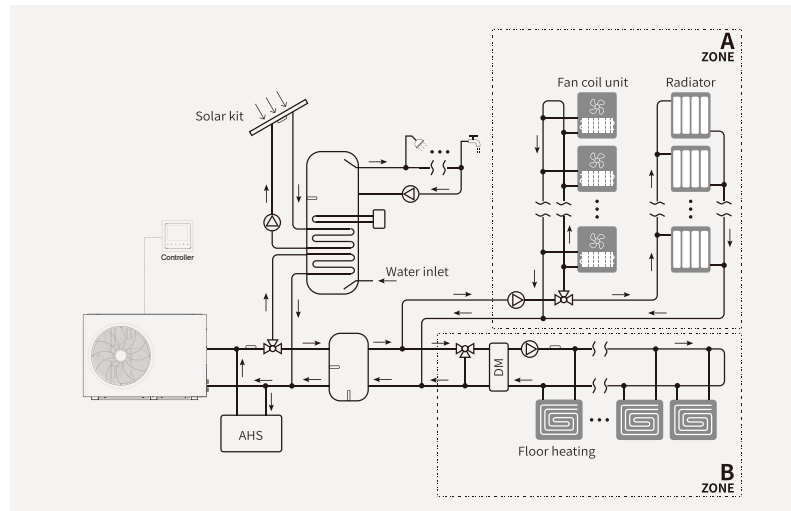
## A one-page overview

Comprehensive HVAC Solution: Combining Heating, Cooling, and Hot Water



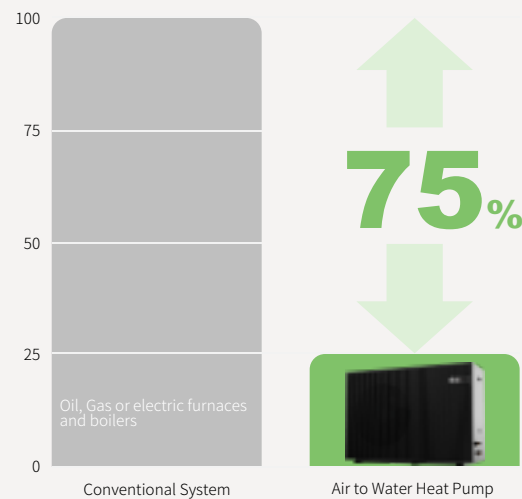
### All in One Solution for Any Application

Thermax/Thermalux air to water heat pump is not only supplies hot water for fan coil, floor heating system, domestic water tank, but is also compatible with the solar collector, gas furnace, boiler and other heat sources.



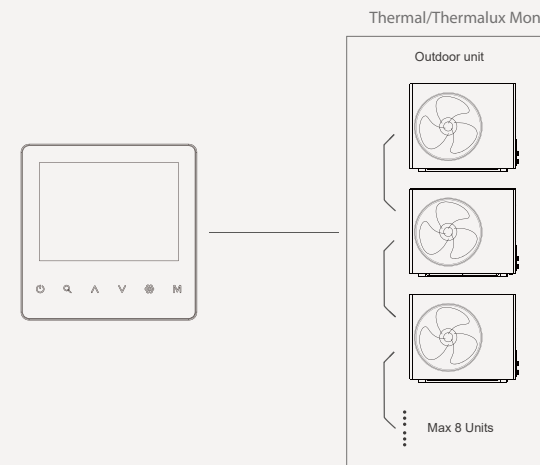
### -35°C Reliable Operation 75°C Powerful Heating

The Thermax R32 Series excels in indoor heating, even at -25°C, maintaining a max water temp of 65°C. The Thermalux R290 Series, with EVI tech, outperforms it by offering up to 75°C and functioning reliably at even -35°C.



### 75% Energy Saving

The term "heat pump" refers to a technique that pumps heat from renewable energy sources, like the air, ground and water. A heat pump device transforms this energy into a usable heat source via the refrigerant cycle. With Thermax heat pump technology about 75% of the energy needed to provide heating and hot water comes from a natural air source.



### 8 Units in Parallel

Maximum 8 units controlled by one controller with automatic addressing (For Thermax series Mono and Thermalux series Mono)

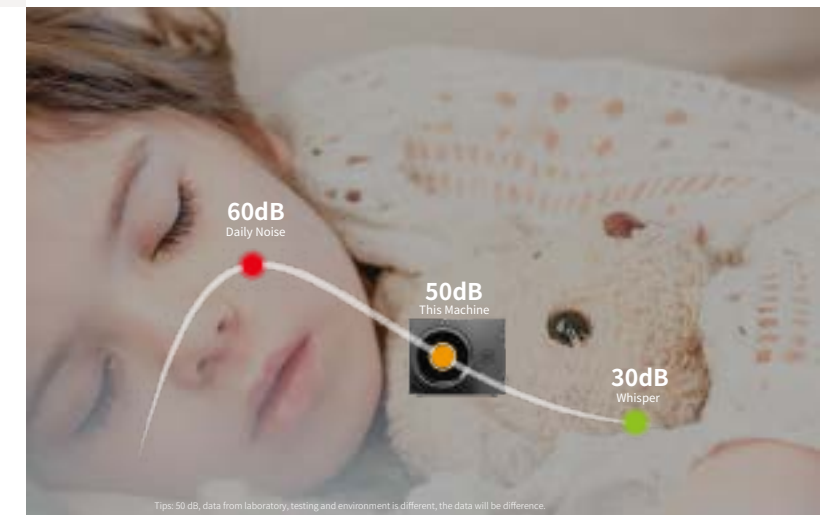
### All DC Inverter Components

Thermax/Thermalux air to water heat pump machine adopts well-known brand components in the industry, such as GMC-C/Toshiba DC inverter compressor, Panasonic/Toshiba DC inverter fan motor, SHIMGE DC inverter water pump, Heatwell PTC heater (Mono B Series), multi-stage electronic expansion valve components, which can make the unit operate efficiently and stably.



### Ultra-Quiet

In silent mode, the operating noise of the equipment can be as low as 50dB(A) within 1 meter, providing customers with an ultra-quiet environment. The compressor is wrapped in a soundproof material, which reduces the operating noise of the compressor. The DEVOTION pool heat pump adopts a GMCC compressor, which operates quietly under both full load and partial load conditions. Newly developed fan blades are adopted to make the unit run quieter.



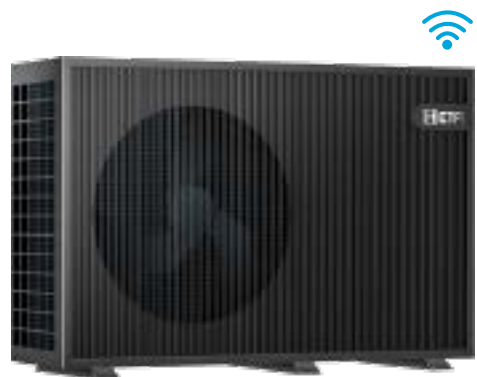


# Multi-functional Controller





# Holiday Mode

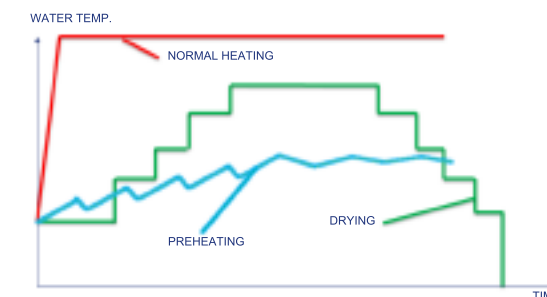


## Just have fun!

Have peace of mind knowing that your home is being protected from potential damage caused by frozen pipes, while also saving on energy costs in an effective and safe way!



# Floor Dry up



## Preheating & Drying Floor

It gradually and evenly increases the temperature of the underfloor, avoiding warping or even cracking during the heating process by excessive moisture on the floor.

# Neural Network

## Intelligence Algorithms

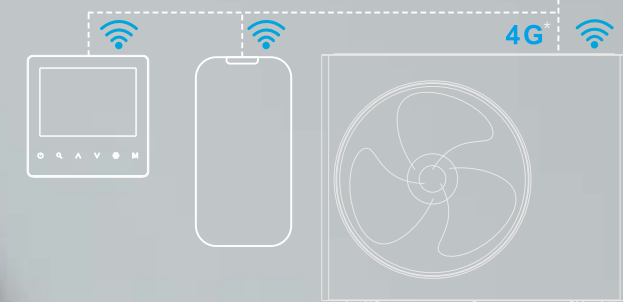
The defrosting logic of the machine is designed very intelligently, utilizing algorithms and learning through neural networks to continuously monitor changes in temperature difference in real-time to determine whether defrosting is necessary. It can operate continuously in winter, ensuring continuous hot water supply.

## Triple Defrost Programmes

- AI Defrosting
- Segmented defrosting of fins
- Regular defrosting



# IOT Cloud Service



## Smart Connect Control Everywhere

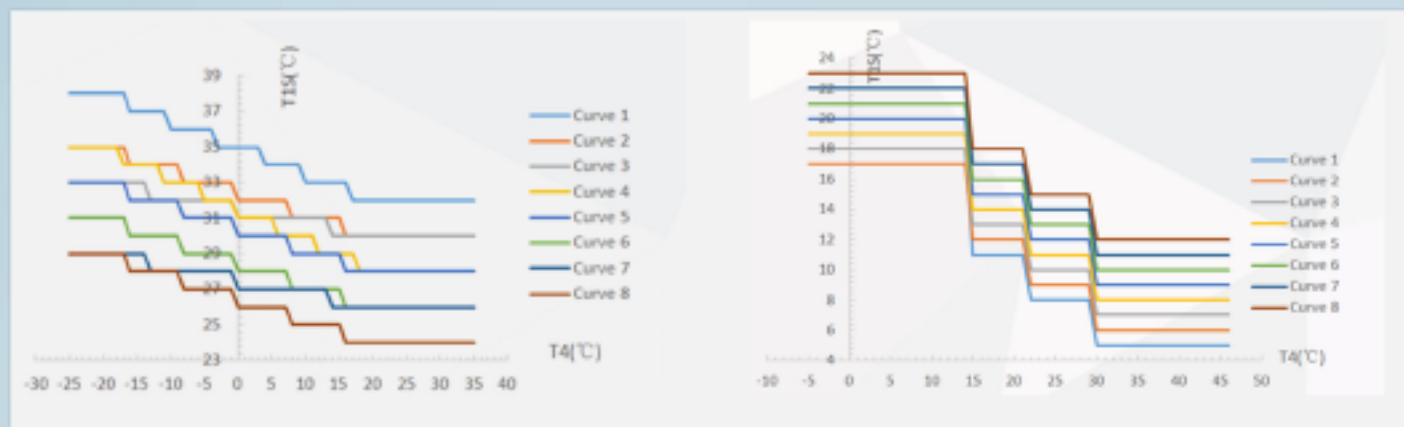
Remote control: control your device or equipment easily and freely  
 Multi-device support: multiple devices can be added at the same time, with one APP can control multiple devices  
 Precise timer: set timers to perform accurate timing tasks

\*Tips: 4G function is optional





# Intelligence Comfortable Temperature Manager



## Heating Climate Curve

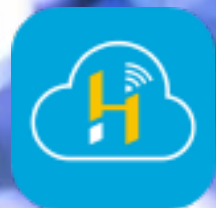
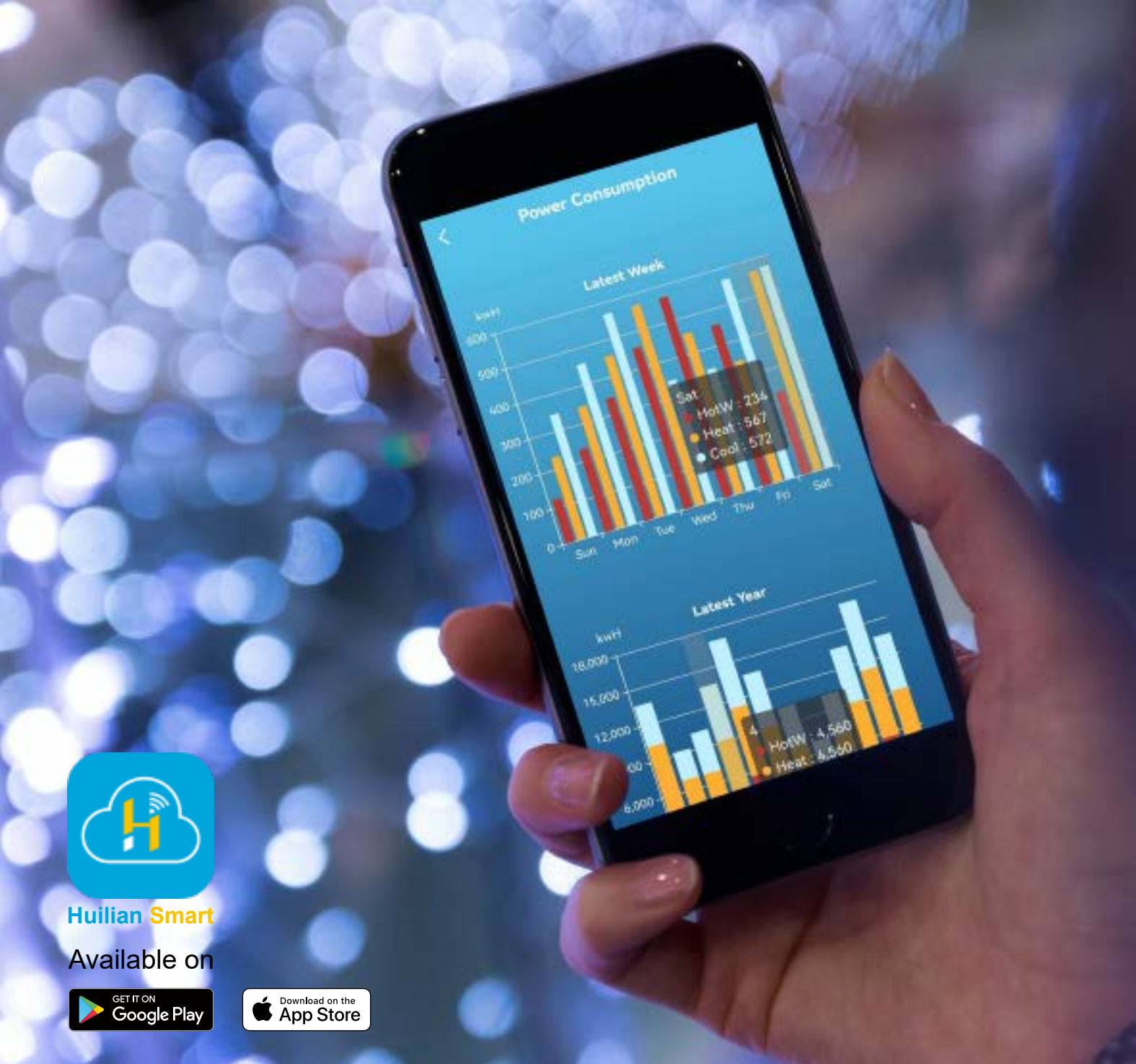
There are a total of 32 climate curves (16 cooling curves+16 heating curves) for users to choose from, and there are also 2 curves (1 cooling curve+1 heating curve) for users to customize.

## Cooling Climate Curve

After selecting a certain climate curve, the target water temperature of the unit will be automatically set based on the outdoor ambient temperature (using different set water temperatures at different ambient temperatures will be more comfortable and energy-saving)







Huilian Smart

Available on



## Electricity Consumption Statistic Analysis

This function allows the user to analyse the heat pump's electricity consumption at different time intervals and optimise its settings to save even more in terms of heating costs.

## Automatic Matching Smart Grid Control

The heat pump adapts to different electrical signals. The energy consumption of the system can be automatically adjusted based on peak and low power, minimizing heating costs. With this feature, the pump will automatically start to utilize cheaper energy prices or store excess electricity from the photovoltaic system.



# Specifications

## Thermax Series

### R32 Mono A



Model		HEAW08MRN3-A	HEAW10MRN3-A	HEAW12MRN3-A	HEAW14MRN3-A	HEAW16MRN3-A	
Power Supply	V/Ph/Hz	220~240V / 1Ph / 50 Hz		380~415V / 3Ph / 50 Hz			
Heating A7W35	Capacity	kW	8.00	10.00	12.00	14.00	16.00
	Rated input	kW	1.66	2.08	2.55	3.11	3.56
	COP		4.81	4.81	4.70	4.50	4.50
Heating A7W45	Capacity	kW	8.00	10.00	12.30	14.00	16.00
	Rated input	kW	2.13	2.67	3.32	4.00	4.57
	COP		3.75	3.75	3.7	3.5	3.5
Heating A7W55	Capacity	kW	7.50	9.50	11.50	14.00	16.00
	Rated input	kW	2.46	3.11	3.77	5.09	5.82
	COP		3.05	3.05	3.05	2.75	2.75
Cooling A35W18	Capacity	kW	7.90	9.90	12.00	12.90	14.90
	Rated input	kW	2.18	2.18	3.04	4.38	4.38
	EER		4.55	4.55	3.95	3.4	3.4
Cooling A35W7	Capacity	kW	6.20	8.20	9.84	12.00	14.00
	Rated input	kW	2.52	2.52	3.02	5.19	5.19
	EER		2.46	3.25	3.26	2.31	2.70
ERP	ERP Level (35°C)		A+++	A+++	A+++	A+++	A+++
	ERP Level (55°C)		A++	A++	A++	A++	A++
SCOP	Water outlet at 35°C		4.98	4.98	5.33	4.83	4.83
	Water outlet at 55°C		3.35	3.35	3.70	3.36	3.36
Sound power Level3	Heating A7W35	dB	60	60	65	68	68
Compressor	Type	GMCC R32 DC Inverter twin rotary					
Outdoor fan	Motor type	DC motor					
	Number of fans	1					
Air side heat exchanger		Φ7 Fin coil					
Water side heat exchanger		Plate type					
Throttle	Type	Electronic expansion valve					
Refrigerant		R32/1.2kg	R32/1.2kg	R32/1.5kg	R32/1.8kg	R32/1.8kg	
Water pump	Type	DC inverter					
	Max. pump head	m	9				
Expansion vessel	Volume	L	5				
	Max. working pressure	bar	8				
Safety valve	Pressure	MPa	0.36				
Water side connection		R5/4"					
Unit Dimension (W*D*H)	mm	1128*500*915					
Packing Dimension Carton (W*D*H)	mm	1225*540*1042					
Carton+Wood Base							
Wooden Crate Packaging Dimensions (W*D*H)	mm	1265*580*1062					
Net/Gross weight	kg	108/142	108/142	114/148	120/154	120/154	
Outdoor air temperature range	Cooling	°C	-5 ~ 43				
	Heating	°C	-25 ~ 35				
	DHW	°C	-25 ~ 43				
Water outlet temperature range	Cooling	°C	5 ~ 30				
	Heating	°C	12 ~ 65				
	DHW (tank)	°C	10 ~ 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.Seasonal space heating energy efficiency class tests in average climate conditions.  
 3.Sound power test condition: EN12102-1  
 DHW: Domestic hot water.

### R32 Mono B



Model		HEAW08MSRN3-B	HEAW10MSRN3-B	HEAW12MSRN3-B	HEAW14MSRN3-B	HEAW16MSRN3-B	
Power Supply	V/Ph/Hz	220~240V / 1Ph / 50 Hz		220~240V / 1Ph / 50 Hz, 380~415V / 3Ph / 50 Hz			
Heating A7W35	Capacity	kW	8.00	10.00	12.00	14.00	16.00
	Rated input	kW	1.66	2.08	2.55	3.11	3.56
	COP		4.81	4.81	4.70	4.50	4.50
Heating A7W45	Capacity	kW	8.00	10.00	12.30	14.00	16.00
	Rated input	kW	2.13	2.67	3.32	4.00	4.57
	COP		3.75	3.75	3.7	3.5	3.5
Heating A7W55	Capacity	kW	7.50	9.50	11.50	14.00	16.00
	Rated input	kW	2.46	3.11	3.77	5.09	5.82
	COP		3.05	3.05	3.05	2.75	2.75
Cooling A35W18	Capacity	kW	7.90	9.90	12.00	12.90	14.90
	Rated input	kW	2.18	2.18	3.04	4.38	4.38
	EER		4.55	4.55	3.95	3.4	3.4
Cooling A35W7	Capacity	kW	6.20	8.20	9.84	12.00	14.00
	Rated input	kW	2.52	2.52	3.02	5.19	5.19
	EER		2.46	3.25	3.26	2.31	2.70
ERP	ERP Level (35°C)		A+++	A+++	A+++	A+++	A+++
	ERP Level (55°C)		A++	A++	A++	A++	A++
SCOP	Water outlet at 35°C		4.98	4.98	5.33	4.83	4.83
	Water outlet at 55°C		3.35	3.35	3.70	3.36	3.36
Sound power Level3	Heating A7W35	dB	60	60	65	68	68
Compressor	Type	GMCC R32 DC Inverter twin rotary					
Outdoor fan	Motor type	DC fan					
	Number of fans	1					
Air side heat exchanger		Finned tube					
Refrigerant		R32/1.2kg	R32/1.2kg	R32/1.5kg	R32/1.8kg	R32/1.8kg	
Unit Dimension (W*D*H)	mm	1325*500*906					
Packing Dimension Carton (W*D*H)	mm	1420*540*1035					
Carton+Wood Base							
Wooden Crate Packaging Dimensions (W*D*H)	mm	1460*580*1055					
Net/Gross weight	kg	118/154	118/154	124/160	130/166	130/166	
Outdoor air temperature range	Cooling	°C	-5 ~ 43				
	Heating	°C	-25 ~ 35				
	DHW	°C	-25 ~ 43				
Auxiliary element	power	W	1500*2				
	current	A	6.5*2				
Water side heat exchanger		Plate type					
Water side connection		R5/4"					
Water outlet temperature range	Cooling	°C	5 ~ 30				
	Heating	°C	12 ~ 65				
	DHW (tank)	°C	10 ~ 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.Seasonal space heating energy efficiency class tests in average climate conditions.  
 3.Sound power test condition: EN12102-1  
 DHW: Domestic hot water.

# Specifications



## R32 Mono L

Model		HEAW22MSRN3-L	HEAW26MSRN3-L	HEAW30MSRN3-L	HEAW35MSRN3-L	
Power Supply	V/Ph/Hz	380~415V / 3Ph / 50 Hz				
Heating A7W35	Capacity	kW	22.00	26.00	30.00	35.00
	Rated input	kW	4.63	5.47	6.28	7.34
	COP		4.75	4.75	4.78	4.77
Heating A7W45	Capacity	kW	22.00	26.00	30.00	35.00
	Rated input	kW	5.90	6.97	8.11	9.51
	COP		3.73	3.73	3.7	3.68
Heating A7W55	Capacity	kW	21.50	25.50	29.50	34.50
	Rated input	kW	7.05	8.36	9.67	12.55
	COP		3.05	3.05	3.05	2.75
Cooling A35W18	Capacity	kW	21.50	25.50	29.50	34.50
	Rated input	kW	4.73	5.60	7.47	10.15
	EER		4.55	4.55	3.95	3.4
Cooling A35W7	Capacity	kW	21.50	25.50	29.50	34.50
	Rated input	kW	7.29	8.64	9.93	11.66
	EER		2.95	2.95	2.97	2.96
ERP	ERP Level(35°C)		A+++	A+++	A+++	A+++
	ERP Level(55°C)		A++	A++	A++	A++
SCOP	Water outlet at 35°C		5.01	5.01	5.32	5.13
	Water outlet at 55°C		3.39	3.39	3.56	3.56
Sound power Level3	Heating A7W35	dB	68	68	70	70
Compressor	Type	Mitsubishi R32 compressor*1				
Outdoor fan	Motor type	DC fan				
	Number of fans	2				
Air side heat exchanger		Finned tube				
Refrigerant		R32/2.4kg	R32/3.3kg	R32/3.3kg		
Unit Dimension (W*D*H)	mm	1212*470*1572				
Packing Dimension Carton (W*D*H) Carton+Wood Base	mm	1300*480*1700				
Wooden Crate Packaging Dimensions (W*D*H)	mm	1340*520*1720				
Net/Gross weight	kg	124/160		160/195		
Outdoor air temperature range	Cooling	°C	-5 ~ 43			
	Heating	°C	-25 ~ 35			
	DHW	°C	-25 ~ 43			
Auxiliary element	power	W	1500*2 (optional)			
	current	A	6.5*2 (optional)			
Water side heat exchanger		Plate type				
Water side connection		R5/4"				
Water outlet temperature range	Cooling	°C	5 ~ 30			
	Heating	°C	12 ~ 65			
	DHW (tank)	°C	10 ~ 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.Seasonal space heating energy efficiency class tests in average climate conditions.  
 3.Sound power test condition: EN12102-1

## R32 Split



Outdoor unit model		HEAW08SRN3-A	HEAW10SRN3-A	HEAW12SRN3-A	HEAW14SRN3-A	HEAW16SRN3-A	
Indoor unit model		DM08SRN3-A	DM10SRN3-A	DM12SRN3-A	DM14SRN3-A	DM16SRN3-A	
Power Supply	V/Ph/Hz	220~240V / 1Ph / 50 Hz		220~240V / 1Ph / 50 Hz, 380~415V / 3Ph / 50 Hz			
Heating A7W35	Capacity	kW	8.00	10.00	12.00	14.00	16.00
	Rated input	kW	1.66	2.08	2.55	3.11	3.56
	COP		4.81	4.81	4.70	4.50	4.50
Heating A7W45	Capacity	kW	8.00	10.00	12.30	14.00	16.00
	Rated input	kW	2.13	2.67	3.32	4.00	4.57
	COP		3.75	3.75	3.7	3.5	3.5
Heating A7W55	Capacity	kW	7.50	9.50	11.50	14.00	16.00
	Rated input	kW	2.46	3.11	3.77	5.09	5.82
	COP		3.05	3.05	3.05	2.75	2.75
Cooling A35W18	Capacity	kW	7.90	9.90	12.00	12.90	14.90
	Rated input	kW	2.18	2.18	3.04	4.38	4.38
	EER		4.55	4.55	3.95	3.4	3.4
Cooling A35W7	Capacity	kW	6.20	8.20	9.84	12.00	14.00
	Rated input	kW	2.52	2.52	3.02	5.19	5.19
	EER		2.46	3.25	3.26	2.31	2.70
ERP	ERP Level (35°C)		A+++	A+++	A+++	A+++	A+++
	ERP Level (55°C)		A++	A++	A++	A++	A++
SCOP	Water outlet at 35°C		4.98	4.98	5.33	4.83	4.83
	Water outlet at 55°C		3.35	3.35	3.70	3.36	3.36
Sound Power Level3	Heating A7W35	dB	60	60	65	68	68
Compressor	Type	GMCC R32 DC Inverter twin rotary					
Outdoor Fan	Motor type	DC fan					
	Number of fans	1					
Air Side Heat Exchanger		Finned tube					
Refrigerant		R32/1.2kg	R32/1.5kg	R32/1.8kg			
Outdoor Unit	Unit Dimension (W*D*H)	mm	1062*414*1002				
	Packing Dimension Carton (W*D*H) Carton+Wood Base	mm	1090*430*1125				
	Wooden Crate Packaging Dimensions (W*D*H)	kg	1120*460*1145				
	Net/Gross weight	kg	89/118	95/125	101/131		
Indoor Unit	Unit Dimension (W*D*H)	mm	516*291*916				
	Packing Dimension Carton (W*D*H) Carton+Wood Base	mm	550*325*935				
	Wooden Crate Packaging Dimensions (W*D*H)	kg	570*345*955				
	Net/Gross weight	kg	30/40	34/44	38/48		
Outdoor Air Temperature Range	Cooling	°C	-5 ~ 43				
	Heating	°C	-25 ~ 35				
	DHW	°C	-25 ~ 43				
Auxiliary Element	Power	W	1500*2				
	Current	A	6.5*2				
Water Side Heat Exchanger		Plate type					
Water Side Connection		R5/4"					
Water Outlet Temperature Range	Cooling	°C	5 ~ 30				
	Heating	°C	12 ~ 65				
	DHW (tank)	°C	10 ~ 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.Seasonal space heating energy efficiency class tests in average climate conditions.  
 3.Sound power test condition: EN12102-1  
 DHW: Domestic hot water.



# Specifications

## Thermalux Series



### R290 Mono

Model		HEAW06MRN5-A	HEAW10MRN5-A	HEAW12MRN5-A	HEAW16MRN5-A	HEAW18MRN5-A	HEAW22MRN5-A
Power Supply	V/Ph/Hz	220~240V / 1Ph / 50 Hz		220~240V / 1Ph / 50 Hz, 380 ~ 415V / 3Ph / 50 Hz			
Heating (A7/6°C,W30/35°C)							
Heating Capacity	kW	6.25	9.95	12.50	15.88	18.00	22
Power Input	kW	1.49	2.07	2.98	3.55	4.62	5.64
COP	W/W	4.19	4.81	4.20	4.47	3.90	3.9
Heating (A7/6°C,W47/55°C)							
Heating Capacity	kW	6.25	9.34	12.50	15.97	17.00	20
Power Input	kW	2.00	3.07	4.17	5.85	5.86	6.90
COP	W/W	3.13	3.04	3.00	2.73	2.90	2.9
Cooling (A35/24°C,W12/7°C)							
Cooling Capacity	kW	4.40	8.20	8.80	14.00	14.00	20
Power Input	kW	1.52	2.52	3.03	5.19	5.19	7.41
EER	W/W	2.89	3.25	2.90	2.70	2.70	2.7
ERP Level (35°C)		A+++	A+++	A+++	A+++	A+++	A+++
ERP Level (55°C)		A++	A++	A++	A++	A++	A++
Rated Water Flow	m3/h	1.032	1.72	2.064	2.752	3.096	3.784
MAX Input Power	kW	2.5	5.01	5.01	7.92	7.92	7.92
MAX Input Current	A	9.5	19	19	30	30	30
Motor Type Of Outdoor Unit		DC fan					
Number of fans		1					
Compressor		GMCC(TOSHIBA) R290 DC Inverter/Rotary/EVI		HIGHLY(HITACHI) R290 DC Inverter/Rotary			
Water Pump		SHIMGE/Inverter/Built-in					
Air Side Heat Exchanger		Finned tube					
Water Side Heat Exchanger		Plate type					
Defrost		Auto defrost with 4 way valve					
Waterproof Grade		IPX4					
Sound Power Level	dB	45	48	48	50	50	58
Max Water Outlet Temperature	°C	75	75	75	75	75	75
Cooling Ambient Temperature	°C	-5 ~ 43					
Heating Ambient Temperature	°C	-25 ~ 35					
DHW Ambient Temperature	°C	-25 ~ 43					
Cooling Outlet Water Temperature	°C	5 ~ 30					
Heating Outlet Water Temperature	°C	12 ~ 75					
DHW (Tank) Outlet Water Temperature	°C	10 ~ 70					
Water Side Connection		R5/4"					
Unit Dimension (W*D*H)	mm	1050*460*803	1325*500*906			1212*470*1572	
Packing Dimension Carton (W*D*H)	mm	1105*495*930	1420*540*1035			1300*480*1700	
Carton+Wood Base							
Wooden Crate Packaging Dimensions (W*D*H)	mm	1145*535*950	1460*580*1055			1340*520*1720	
Net Weight	kg	90	118		130		170
Gross Weight	kg	95	154		166		198

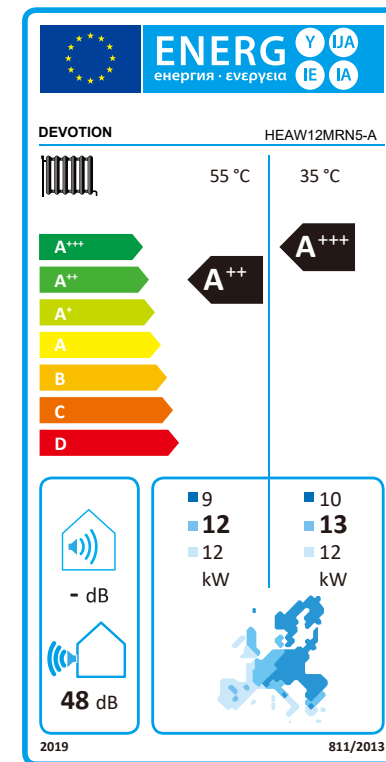
Notes:

1.Relevant EU standards and legislation: EN14511; EN14825; EN50564; EN12102; (EU) No 811/2013; (EU) No 813/2013; OJ 2014/C 207/02.

2.Seasonal space heating energy efficiency class tests in average climate conditions.

3.Sound power test condition: EN12102-1

DHW: Domestic Hot Water.



### Energy Label

Energy labels are placed on every domestic electrical appliance sold in the European Union. A+++ energy label is available according to EU No. 811/2013 label classification 2019, on a scale from D to A+++





# Swimming Pool Heat Pump





# Pool Heat Pump Features

## Poolar Series

The Poolar series heat pump is equipped with an optional 4.1 inches intelligent color touch screen multilingual remote control, with rich control functions to ensure the perfect operation of the machine under different temperature conditions and meet the different control needs of users. At this point, the optional WiFi, 4G, and APP functions meet users' remote control of machines and intelligent energy management.

### Main Components

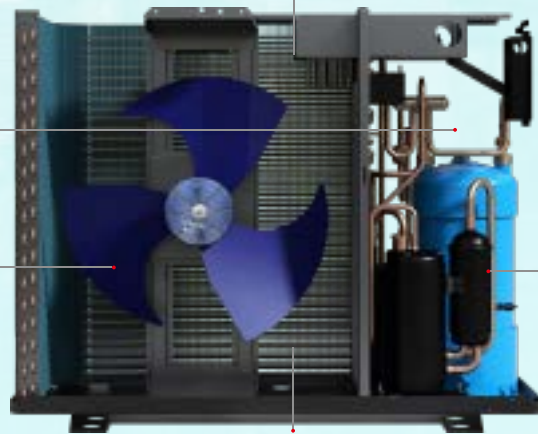
Anti-Corrosion Spiral Titanium Tube



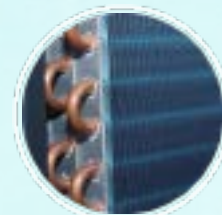
Integrated Driver Board



Display Controller



DC Inverter Fan Motor

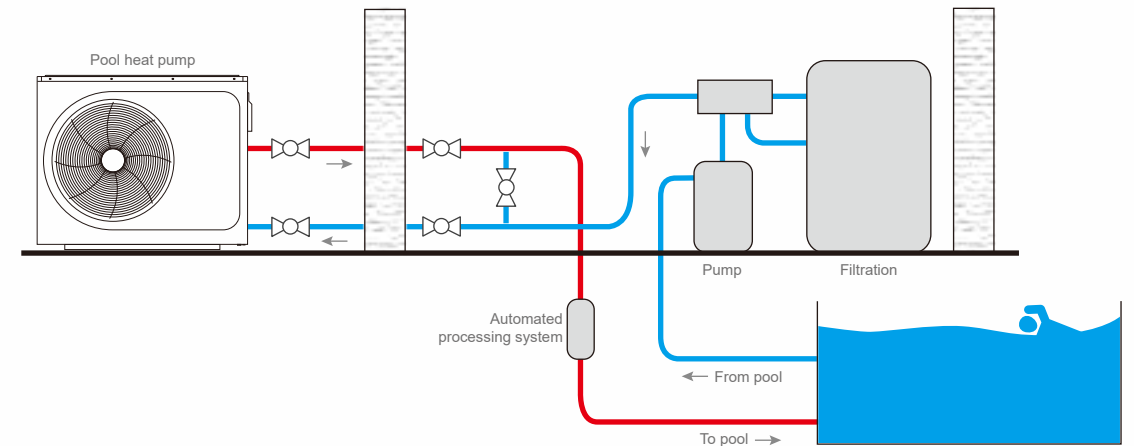


φ7 Inner Screw Blue Fin



R32 DC Inverter Compressor

### APPLICATION



# Specifications



## R32 Swimming Pool Heat Pump

Model		YRB70D/WB	YRB90D/WB	YRB110D/WB	YRB150D/WB	YRB180D/WB	YRB210D/WB	YRB270D/WB3
Applicable Area	m <sup>3</sup>	15~30	20~40	25~50	30~60	40~80	45~90	50~110
Environment Temp	°C	-7 ~ 43						
Working Condition1		Air 27°C/Water 26°C/Humidity 80%						
Rated Heating Capacity 1	kW	1.80~7.21	2.29~9.30	2.83~11.33	3.83~15.32	4.59~18.36	5.09~21.22	7.1~28.4
COP1		14.11~6.15	14.11~6.18	14.15~6.20	14.02~6.13	14.05~6.09	14.12~6.05	15.8~6.8
Working Condition2		Air 15°C/Water 26°C/Humidity 70%						
Rated Heating Capacity 2	kW	1.29~5.34	1.65~6.88	2.01~8.38	2.71~11.39	3.28~13.55	3.84~15.88	5~22.1
COP2		7.48~4.53	7.5~4.55	7.5~4.55	7.45~4.56	7.48~4.55	7.48~4.55	7.6~4.9
Sound Pressure in silence mode 1m	dB	38~48	40~49	42~51	43~52	45~54	46~55	46~57
Power Supply	V/Ph/Hz	220~240V / 1Ph / 50 Hz						
Outlet Water Temp	°C	15~40						
Outlet Diameter	mm	50						
Water Flow Volume	m <sup>3</sup> /h	3.1	4	4.9	6.6	7.9	9.1	9.8
Water Pressure Drop	kpa	2	2	4	5	5.5	6	6.2
Certificates		CE & RoHS & REACH						
Unit Dimensions(W*D*H)	mm	891*420*648			1050*460*803			1128*500*915
Packing Dimension Carton(W*D*H)	mm	945*455*775			1105*495*930			1225*540*1042
Carton+Wood Base								
Wooden Crate Packaging Dimensions (W*D*H)	mm	985*495*795			1145*535*950			1265*580*1062
Compressor		GMCC R32 DC Inverter						
Net Weight	kg	53	55	57	70	73	78	88
Gross Weight	kg	62	64	66	85.6	88.6	93.6	110
Water Proof		IPX 4						
Stuffing Quantity 20GP/40HQ		72/144			44/132			

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.Seasonal space heating energy efficiency class tests in average climate conditions.  
 3.Sound power test condition: EN12102-1  
 DHW: Domestic hot water.



# Hydraulic System





# Hydraulic System Features



- Dual-model Design**  
Dual-model design with a unique design available in two color options: white and grey.
- Buffer Tank**  
Buffer tank of 60 liters and domestic hot water tank of 250 liters made of high-quality Duplex stainless steel is a standard component of the Hydraulic System cabinet.
- 3.5-inch Smart Controller**  
The built-in touch-sensitive, multi-functional LCD color display controller allows for intuitive management of the heat pump operation.
- Easy Installation**  
Thanks to this integrated system, users do not need to install a separate water system.

## Diagram of Faucet



- Fan Coil Unit Outlet
- Fan Coil Unit Inlet
- Radiator Outlet
- Radiator Inlet
- Floor Heating Outlet
- Floor Heating Inlet
- Floor Heating Outlet
- Floor Heating Inlet

Side A

## Key Components



- Water Tank
- Expansion Tank
- Buffer Tank
- Indoor PCB
- 3-way Valve
- E-Heater
- Water Pump
- Proportional Valve



- Hot Water Outlet
- Solar Energy Inlet
- Solar Energy Outlet
- Tap Water Inlet
- Return Water Inlet
- External Heat Source Inlet
- External Heat Source Outlet
- Heat Source Inlet
- Heat Source Outlet
- 250L Water Tank Drain Outlet
- 60L Buffer Tank Drain Outlet
- Drain Outlet

Side B

## Universal Design

Easy Installation & Maintenance



- Easy to install:**

No need to worry about the orientation of the Hydraulic, as the design is symmetrical.

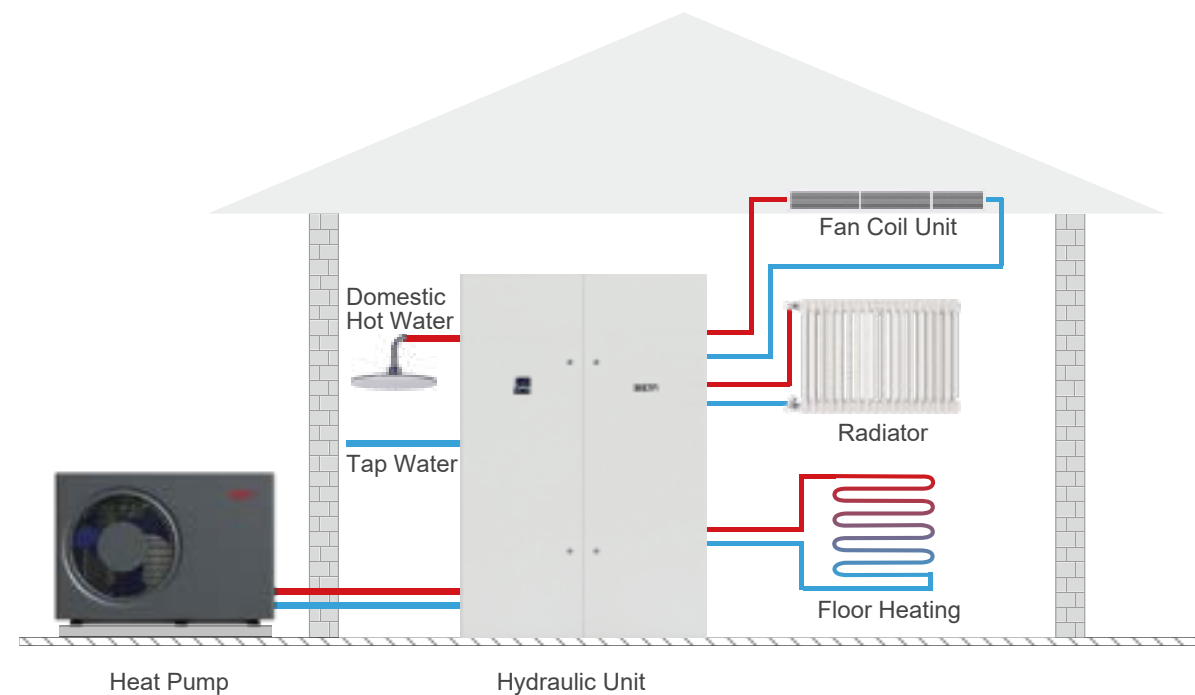
- Flexibility:**

The universal design of the Hydraulic allows for installation in any orientation, simplifying the installation process.

- Accessibility:**

The four-door design makes it easy to maintain the internal components of the Hydraulic.

## APPLICATION



# Specifications

### Hydraulic

Item		Des.	Brand	Unit	QTY
Model		DSSMK-250L/60LH-A	Devotion	/	/
Description		All in one Hydraulic unit - For Devotion monoblock heat pump R32&R290			
Power Supply	V/Ph/Hz	220V-1PH-50HZ			
DHW Storage tank	L	250	Devotion	set	1
Buffer tank	L	60	Devotion	set	1
Water pump		APF25-12-130FPWM1/VH	SHIMGE	set	4
3-way valve		FBV-3 port L type valve	DANFOSS	set	2
Proportional valve		VRB 3	DANFOSS	set	2
Expansion tank		8L/NY8F-44003	NENY	set	2
Safety valve		0352-04-40	SANHUA	set	2
Exhaust valve		2827-03-001	Midea	set	2
Water pressure valve	MPA	1.6	/	set	2
Stop valve	inch	1.2	/	set	4
Stop valve	inch	1	/	set	12
Stop valve		45264	/	set	1
Indoor PCB		LK55686A.01	Devotion	set	1
Water flow switch		VKS/G33/0.8T/A/J	KAOBO	set	1
Contacteur		CLK-15J31C/15A/220V	/	set	2
Leakage protection switch		BV-DN/1P/16A/220V	/	set	2
E-Heater		1500W*2/SMP8.5I2739	Heatwell	set	1
Net size	mm		1354*808*1935		
Packing size	mm		1440*900*2080		

Note:

All accessories can be customized as request, please find more information from [info@hetapro.com](mailto:info@hetapro.com)