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Note: Product design and specification subject to change without prior notice.

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Hisense

Hi-Therma II

R290 Heat Pump Product Catalogue



Reimagine your solution

Hisense

海信国际中心

Hisense SINCE 1969

Hisense is a well-known large-scale electronic information industrial group. With strong emphasis on technology and innovation, its efficient technological innovation system firmly grounds Hisense at the forefront of its peers. At present, Hisense brand family has expanded to include multiple famous brand Hisense, Toshiba, Gorenje and ASKO.

SINCE 1969

BUSINESS OVERVIEW

Multimedia

TV and Display Devices
Internet TV Operation
Mobile Communication Devices
Optical Communication
Devices
Chip

Household Appliances

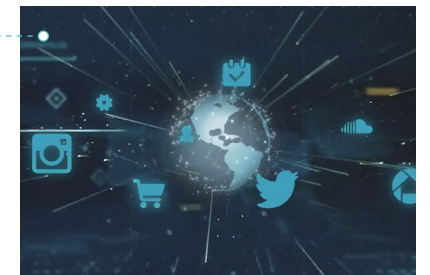
Refrigerator
Freezer
Air-conditioner
Washing Machine
Kitchen Appliance

IT Smart Systems

Smart City
Smart Community
Smart Transportation
Smart Business
Medical Electronic Devices
Smart Home System and Service

Real Estate & Modern Services

Real Estate
High-end Shopping Mall Chain
Mould Design and Manufacturing
Finance
Trade



GLOBAL HISENSE SINCE 1969

Hisense has started a long-term sports marketing strategy to increase brand awareness worldwide. After the successful sponsorship of **UEFA EURO 2016 & 2020** and **FIFA WORLD CUP 2018 & 2022**, Hisense has made clear its focus on football. Hisense also is the official partner of **UEFA EURO 2024**.



2015

Team Supplier to Red Bull Racing



2016

Official Partner of UEFA EURO 2016



2018

Official Sponsor of 2018 FIFA World Cup



2020

Official Partner of UEFA EURO 2020



2022

Official Sponsor of 2022 FIFA World Cup



2024

Official Partner of UEFA EURO 2024



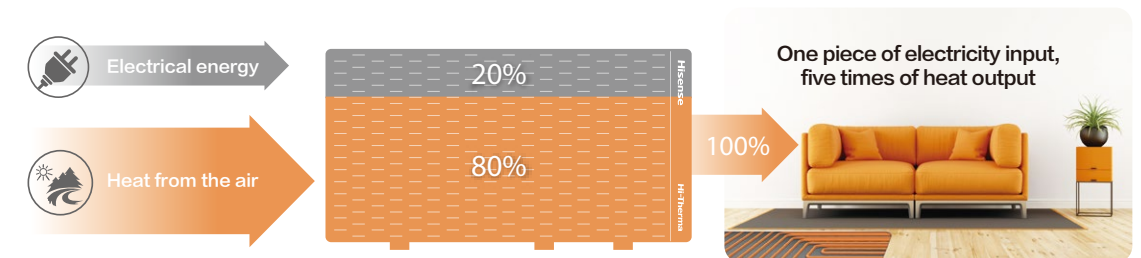
What is an Air-to-Water Heat Pump System ?

Hi-Therma II

The ATW heat pump system is a revolutionary solution for cooling, heating and domestic hot water. It converts renewable energy sources like air, soil and water into useful heat through a refrigerant cycle, which is more energy-efficient and eco-friendly than traditional fossil fuel boilers.

Advanced Renewable Energy Utilization Technology

Thanks to the advanced heat pump technology, Hi-Therma II Series can pump heat from the natural air source with a small amount of electricity used, and then supply a large amount of heat to your home. The heat output is greater than the electricity input, making the system highly efficient.



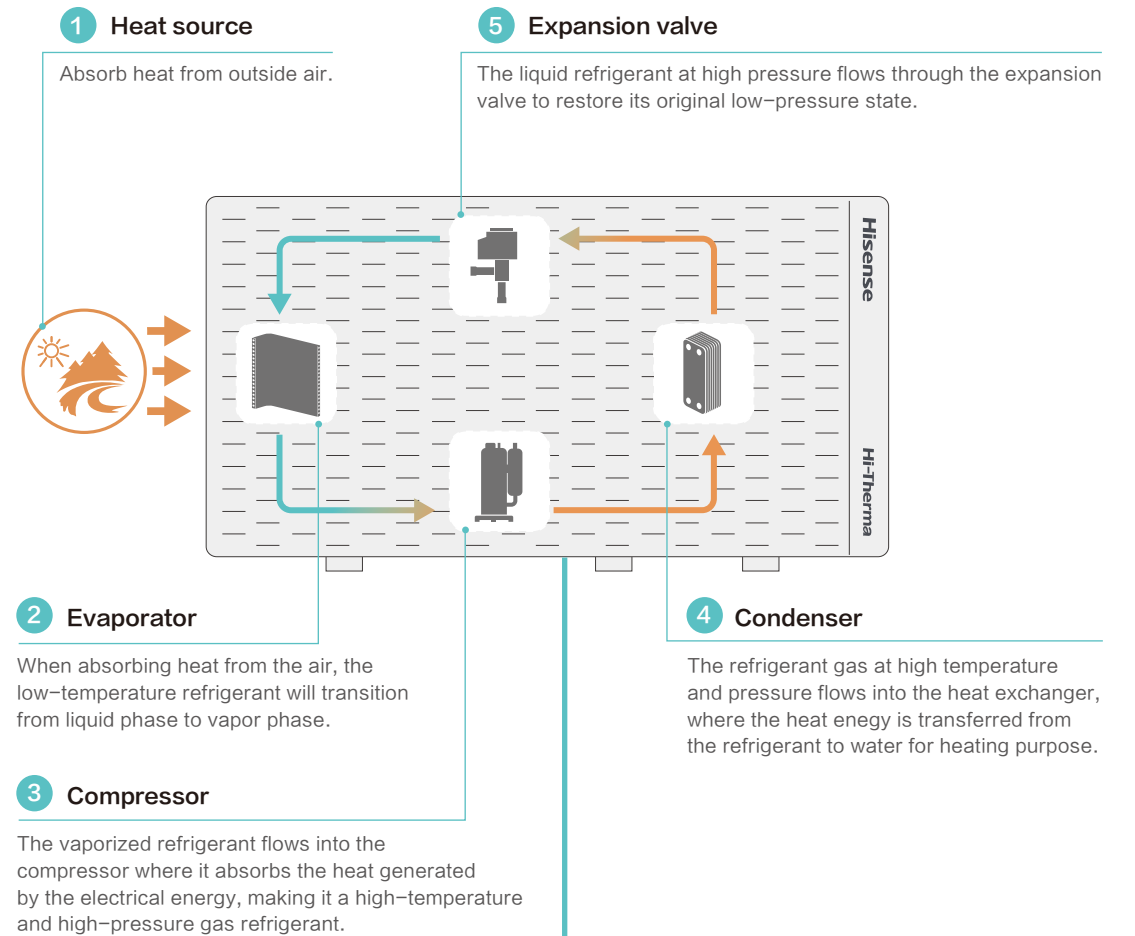
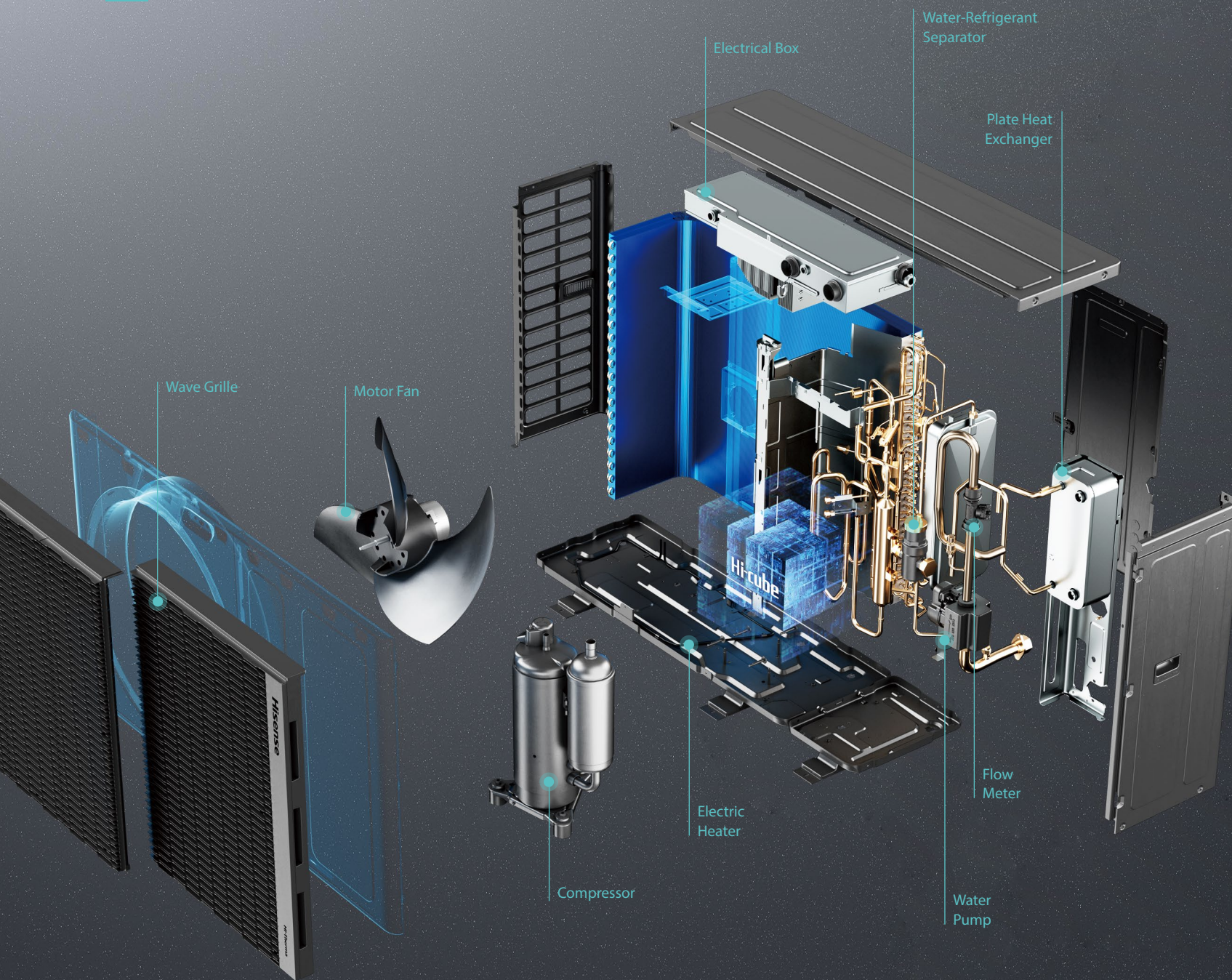
Sustainable Alternative to Conventional Boilers

Traditional heating systems rely on fossil fuels like gas, oil, and coal, which have caused heavy environmental pollution and greenhouse gas emissions. Hi-Therma II Series has been developed to meet the increasing demand for eco-conscious devices in both newly-built and renovated homes, reducing environmental impact and minimizing energy consumption to the greatest extent.



How does an Air-to-Water Heat Pump System Work?

Hi-Therma II



Domestic Hot Water



Underfloor Heating



Radiator Heating



Fan Coil Unit Cooling&Heating

Regulations and Certifications

Hi-Therma II

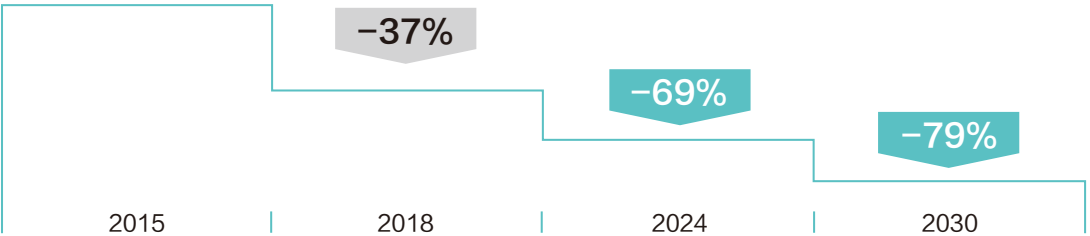


F-Gas Regulation

European regulation F-GAS (517/2014) came into force on 1st January 2015, in order to reduce greenhouse gas emissions. It aims to reduce the environmental impact of F-gases through the reduction of the amount of HFC (hydrofluorocarbon) refrigerant used in cooling and heating systems.

The regulation 517/2014 prescribes a phase-down of HFCs, where the quantities of HFCs that are placed on the market are gradually reduced through the allocation of quotas by the European Commission. The phase-down targets are expressed in CO₂ equivalents (= kg x GWP- Global Warming Potential) and aim to reduce HFC consumption by 79% in 2030.

Consumption of HFC compared to CO₂ equivalent tonnes



KEYMARK Certificate

The Heat Pump KEYMARK is a voluntary, independent European certification mark (ISO type 5 certification) for all heat pumps, combination heat pumps and hot water heaters (as covered by Ecodesign, EU Regulation 811/2013 and 813/2013).

It is based on independent, third party testing and demonstrates compliance with product requirements as set in the Heat Pump KEYMARK scheme rules and with efficiency requirements as set by Ecodesign.

The Heat Pump KEYMARK scheme is owned by the European Committee for standardization (CEN). The certificates are granted by independent Certification Bodies to products fulfilling all requirements of the scheme.

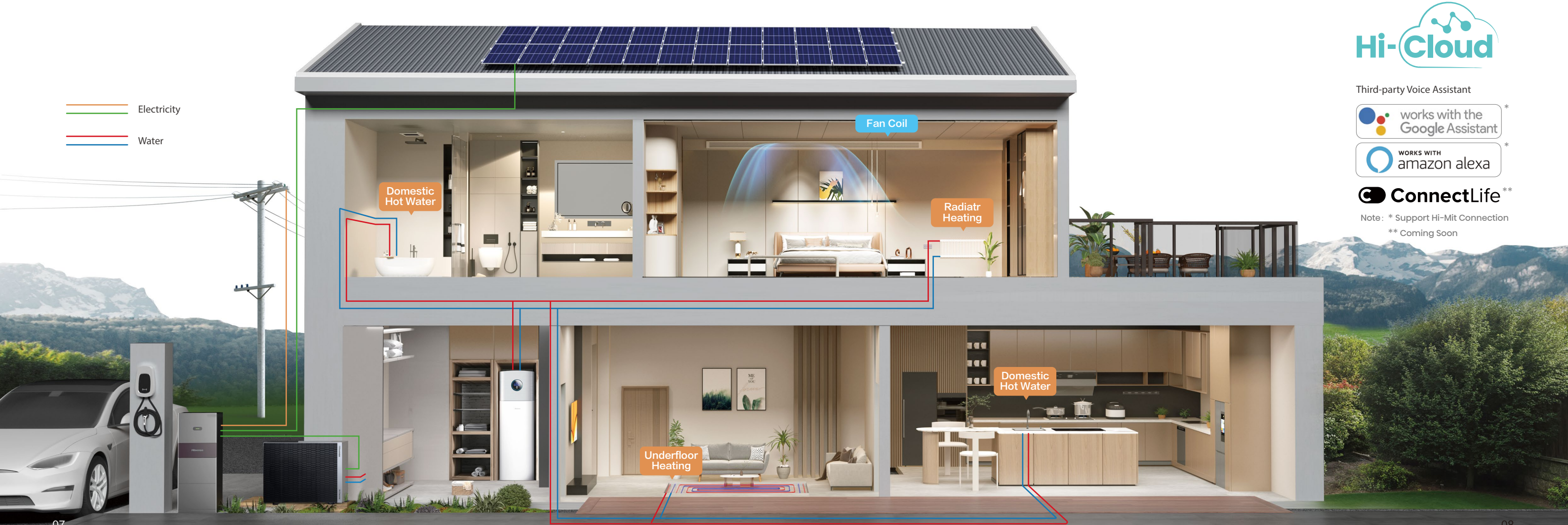
Check all our certified heat pumps on: www.heatpumpkeymark.com



Product Lineup Overview

Series	Hi-Therma II R290		
Type	M1 Series	H1 Series	
Diagram			
Soution	Monobloc	Hydro-split	Hydro-integra
Line-up	1 phase 5.0/8.0/10.0kW	1 phase 5.0/8.0/10.0kW	1 phase 5.0/8.0/10.0kW
Application			
Energy Label Space Heating 35°C	A+++	A+++	A+++
Energy Label Space Heating 55°C	Up to A+++	A++	A++

Series	Hi-Therma II R290		
Type	M2 Series	H2 Series	
Diagram			
Soution	Monobloc	Hydro-split	Hydro-integra
Line-up	1 phase/3 phase 12.0/14.0/16.0kW	1 phase/3 phase 12.0/14.0/16.0kW	1 phase/3 phase 12.0/14.0/16.0kW
Application			
Energy Label Space Heating 35°C	A+++	A+++	A+++
Energy Label Space Heating 55°C	A++	A++	A++



Third-party Voice Assistant



Note: * Support Hi-Mit Connection
** Coming Soon

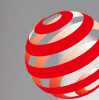
Environment Friendly



Eco-Friendly
Refrigerant



Award-Winning
Futuristic Design

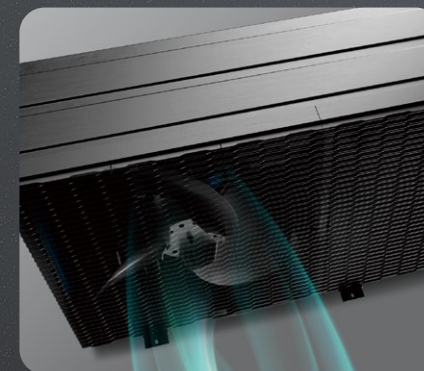


reddot design award
Interior Aesthetics Design



Transforming Technology into Art

A visual treat that pleases your eyes and captivates your senses



Smooth Wave grille,
Reduced Fan Noise



Environmental-friendly
Recyclable Plastics



Decorative Metal Plaque



Detachable Modular Grilles



Geometric Design
with Smooth Edges



Invisible Base Brackets

IF Award-Winning,
Minimalist & Futuristic Aesthetics

The state-of-the-art design of Hi-Therma II Series conveys our pursuit for sustainability, futurism, and minimalism. It adopts a streamlined geometric design with smooth edges treated with high-quality craftsmanship. The modular grilles is made of environmental-friendly recyclable plastics, with the specially-designed decorative metal plaque on the right side. Whether in residential or commercial spaces, it can seamlessly integrate into the environment.



Red Dot Award-winning,
Interior Aesthetics Design

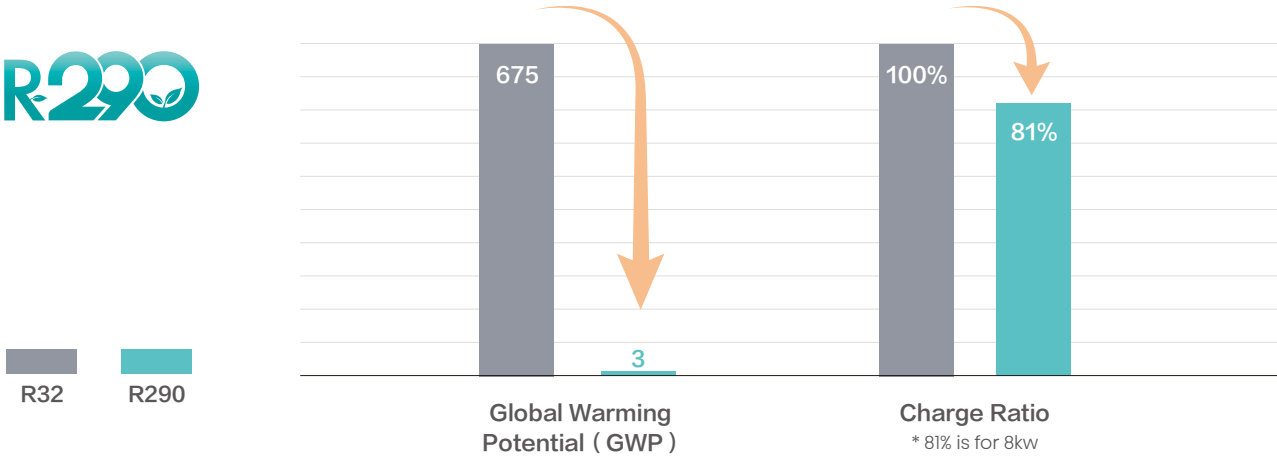
Our Red Dot Award-winning indoor unit integrates modern minimalist with classic elegance, tailored to seamlessly blend with your interior decor. They are not only home appliances, but also artistic expressions that elevate the ambiance of your space, turning the ordinary into extraordinary.



R290 Eco-Friendly Refrigerant

R290, also known as propane, is an eco-friendly refrigerant that marks a significant step forward for sustainable HVAC solutions. Unlike traditional refrigerants such as R-22 or R-410A which contain ozone-depleting substances or have high global warming potential, R290 offers a much greener alternative with nearly zero (only 0.02) carbon emissions that contributes to mitigating climate change.

- ◆ Zero Ozone Depletion Potential (ODP=0)
- ◆ Lower Global Warming Potential (GWP=3)
- ◆ Less charge amount under the same capacity
- ◆ Higher Energy Efficiency



Triple Refrigerant Safety Protection

While R290 is classified as a mildly flammable refrigerant, strict safety protection measures are conducted to ensure your peace of mind. The electrical box is fully sealed, and all internal components comply with A3 explosion-proof standard, preventing any electrical ignition in case of refrigerant leaks. Besides, the Water-Refrigerant Separator prevents the refrigerant from entering the living space, further enhancing safety.

Triple Safety Measures

- 1 All electrical components comply with A3 explosion-proof standard
- 2 The electrical box is fullysealed to prevent refrigerant from entering
- 3 Water-Refrigerant separator with high discharge rate to prevent refrigerant from entering into the room



Energy Saving

1 piece of electricity input 5 times of heat output

Energy Efficiency

A+++



*SCOP: Seasonal Coefficient of Performance

High SCOP Performance

Boasting a High SCOP Performance of 5.0+, this remarkable rating ensures maximum heating performance while significantly reducing your energy consumption and carbon footprint.



A+++ Energy Efficiency

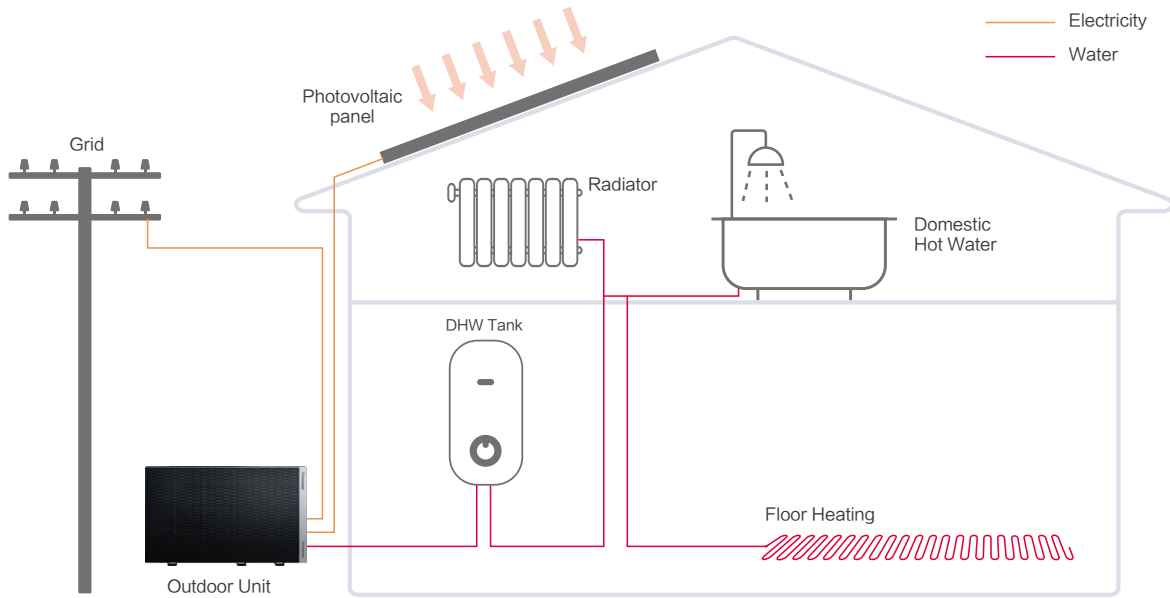
Hi-Therma II offers the best efficient solution for home heating and hot water supply. It has the top class A+++ energy classification at 35°C and up to A+++ at 55°C, which saves on your energy bills and reduces impact on the environment.



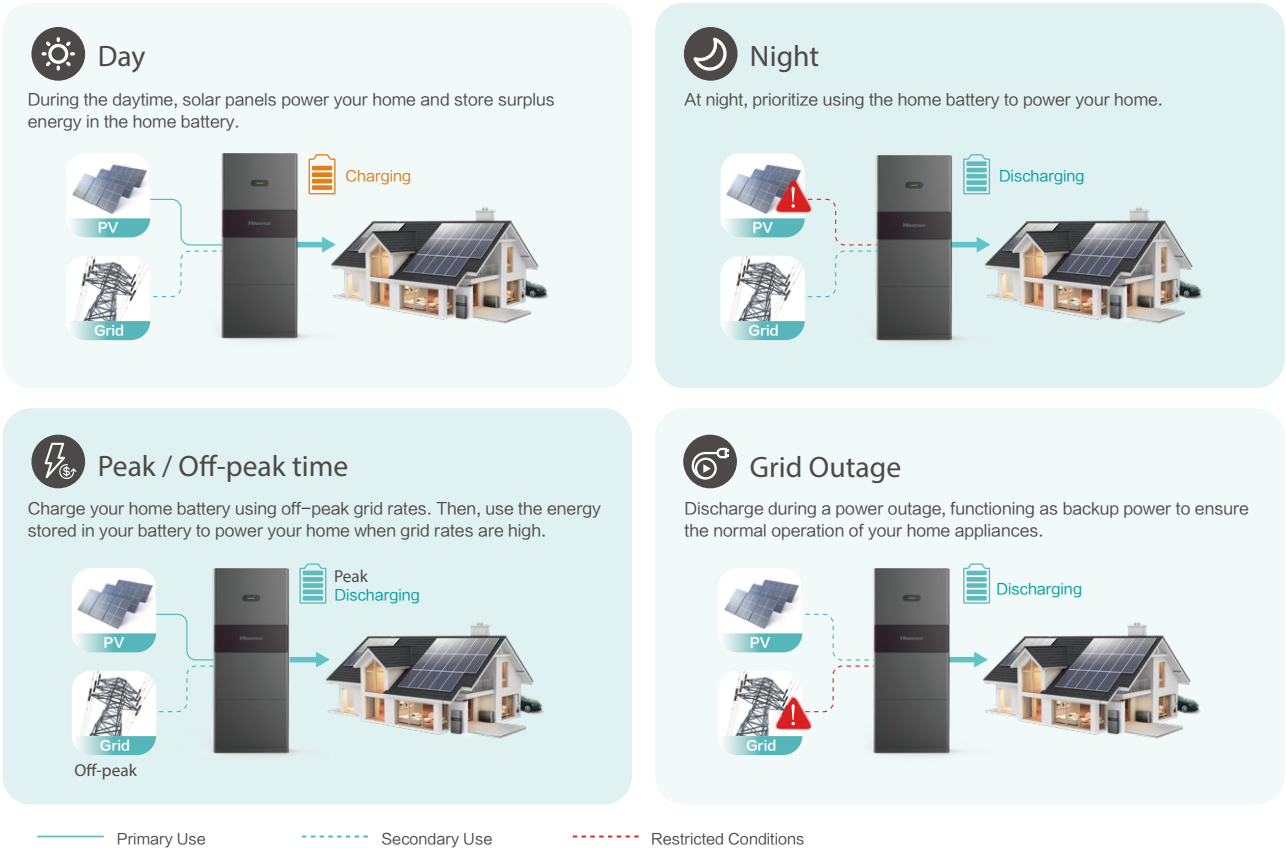
Energy Label

Maximize Energy Utilization with PV Interlocked

Maximize your energy efficiency with photovoltaic (PV) storage interlocked, ensuring that renewable energy is utilized to its fullest potential, and leading to significant cost savings and environmental benefits.



4 Energy Utilization Scenarios (Optional) :



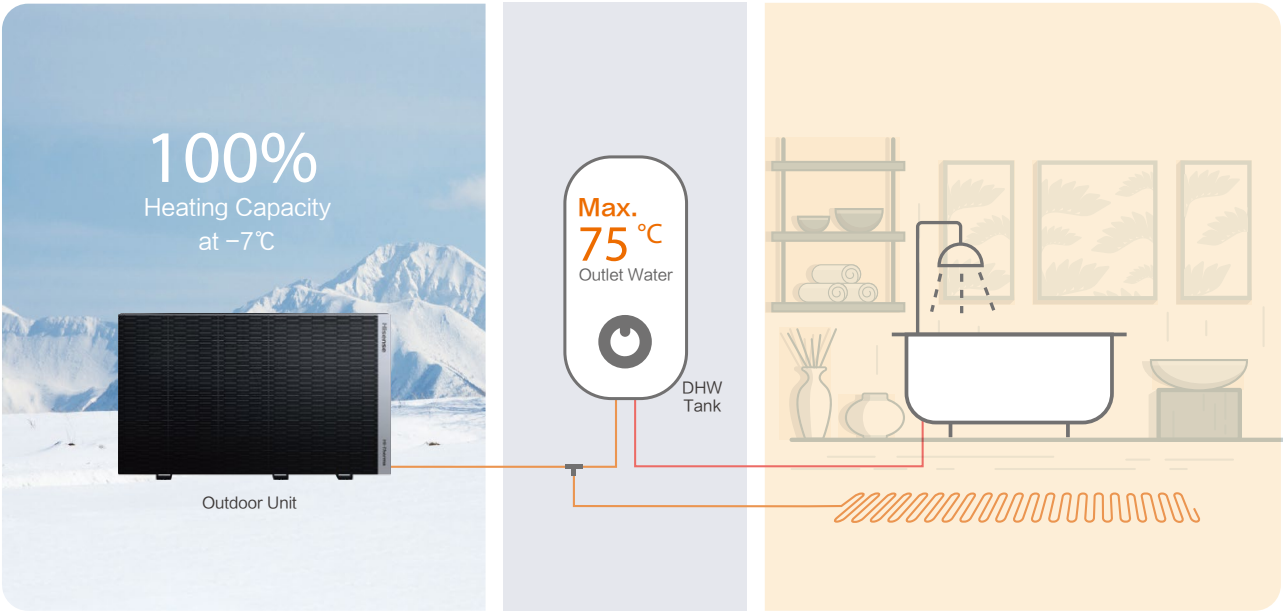
ECO Comfort

 **75°C**
Outlet Water
at -10°C

100 %
Heating Capacity
Unaffected at -7°C 

Consistent Warmth Guaranteed

Our cutting-edge system guarantees stable operation even when the outdoor temperature is as low as -25°C, and 100% heating capacity is guaranteed at -7°C, effortlessly meeting the heating demand in extreme cold areas. With the ability to produce up to 75°C outlet water even at -10°C, you can enjoy health and warmth with effective sterilization.



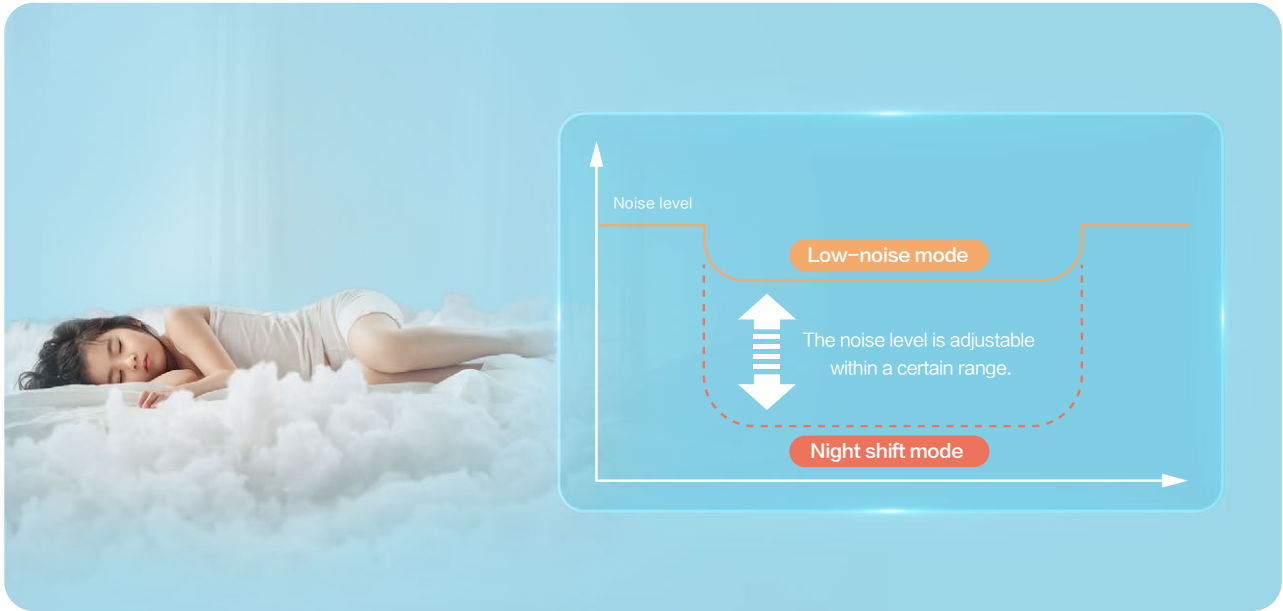
Wide Operation Range

Experience ultimate heating and cooling performance in every season, with outdoor ambient temperature range for heating operation from -25°C to 35°C, for domestic hot water from -25°C to 46°C, and for cooling from 5°C to 48°C.



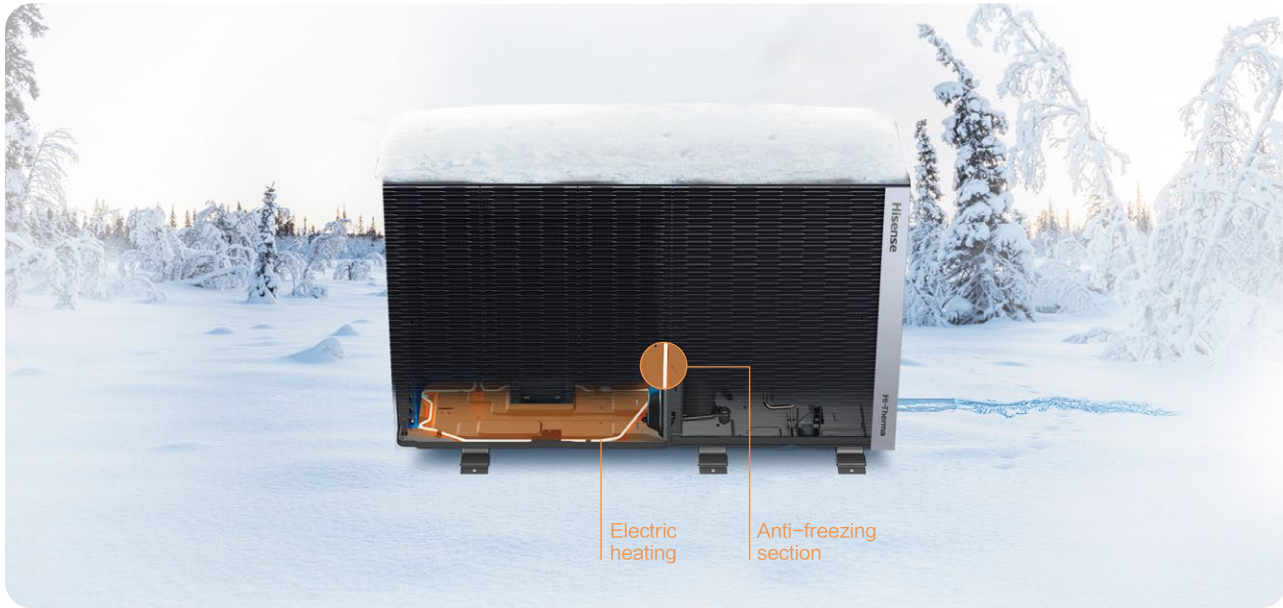
Whisper-quiet Operation

Hi-Therma II Series can work in a low-noise operation mode for optimal user comfort, with max.8 dB(A) can be reduced. Under the night shift mode, the operation period can be set according to individual needs, further lowering the sound pressure level to an ultra-quiet 36dB(A). All these modes can be adjusted with a simple touch on the controller.



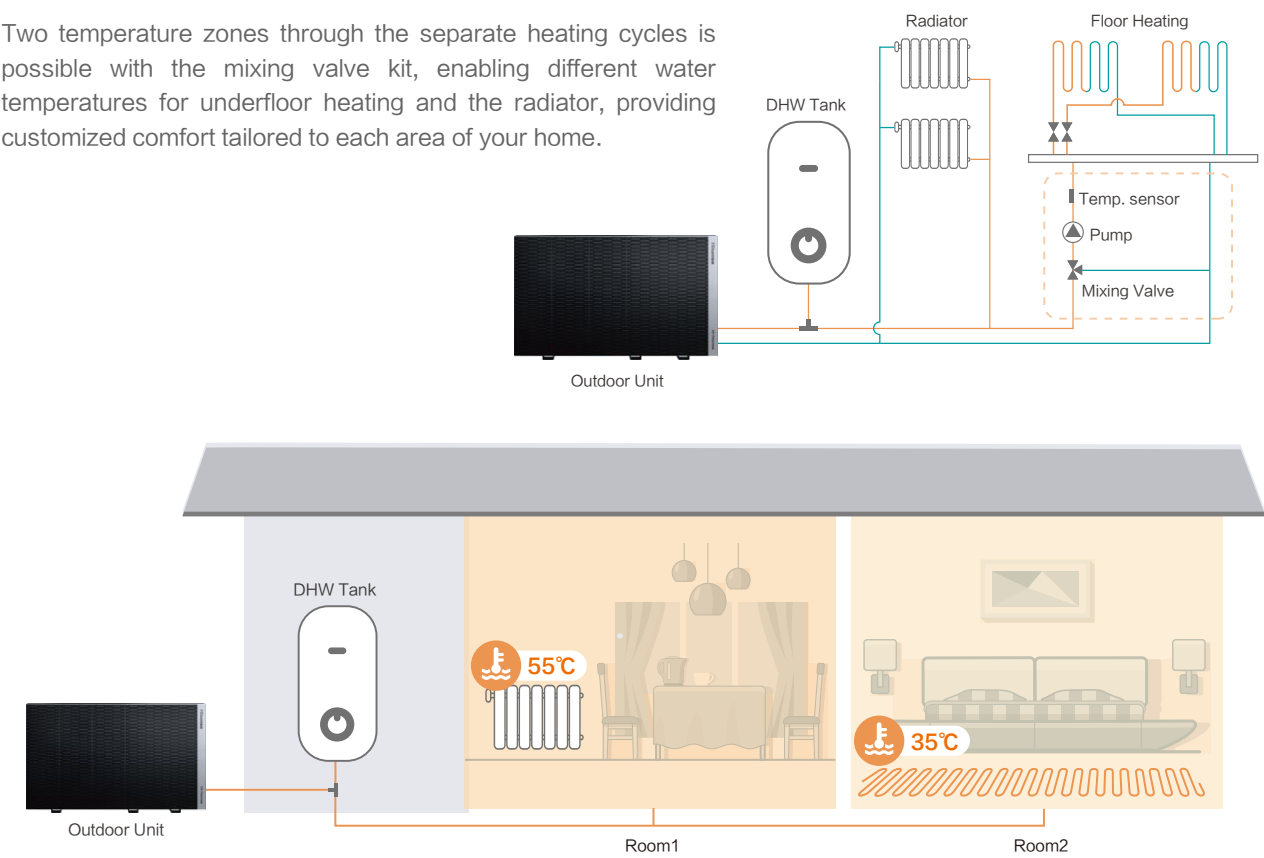
Bottom Anti-frosting Design

The specially designed anti-freezing section at the bottom of the heat exchanger prevents frost accumulation, and the bottom plate is equipped with electric heating to prevent ice blockage, maintaining seamless functionality of the unit throughout the year.



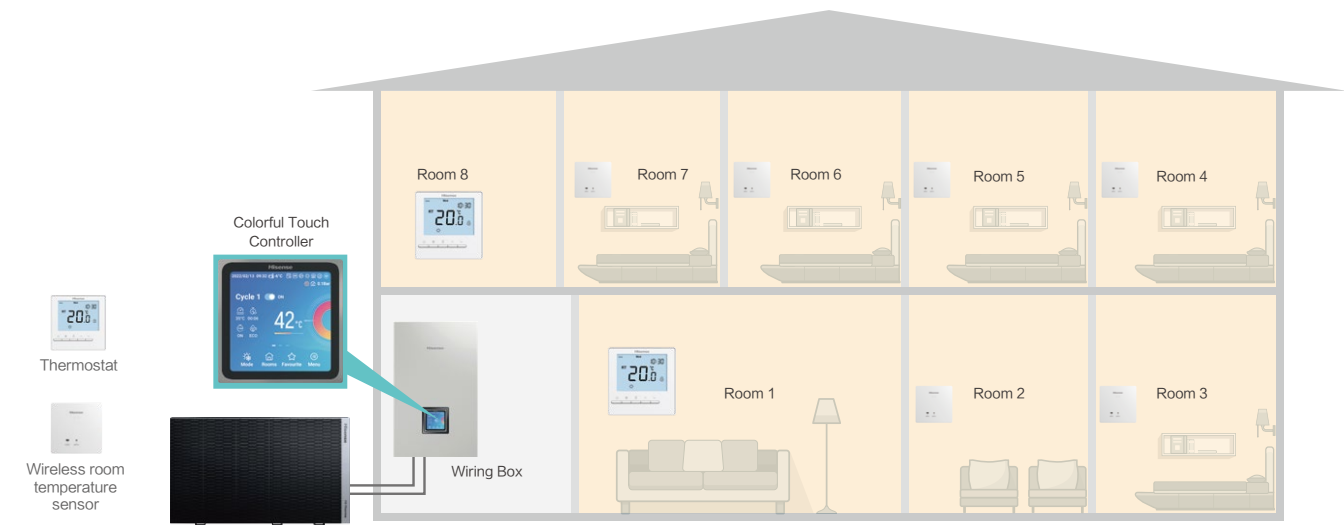
Two Separate Temp. Cycles

Two temperature zones through the separate heating cycles is possible with the mixing valve kit, enabling different water temperatures for underfloor heating and the radiator, providing customized comfort tailored to each area of your home.



8 Rooms Independent Temp. Control

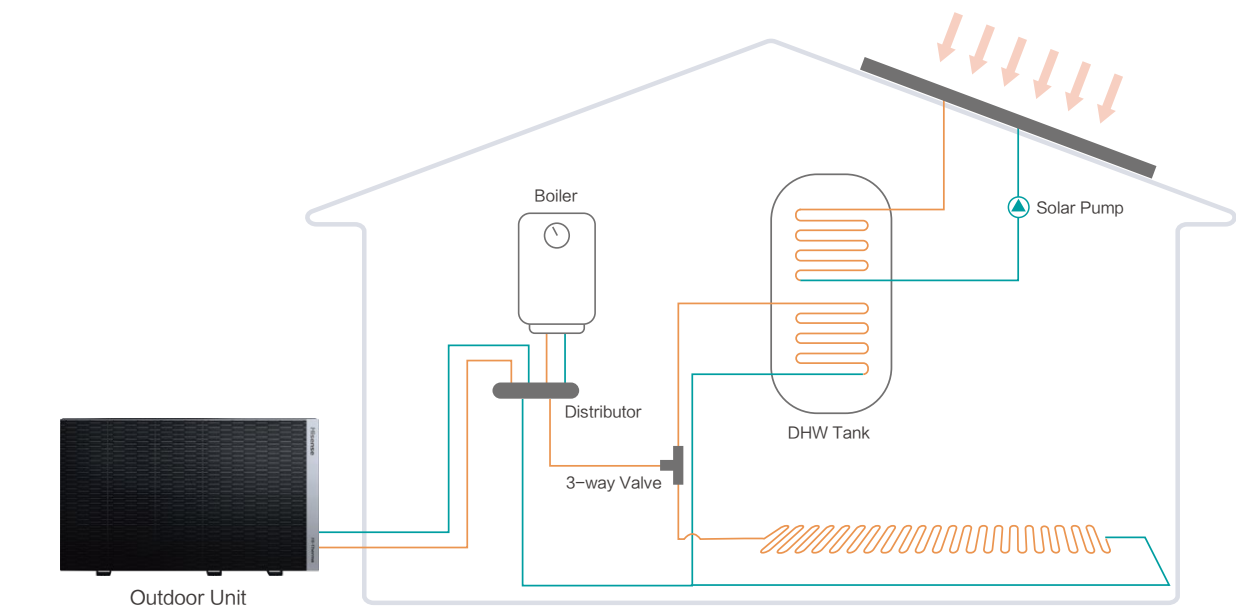
The temperature of up to 8 rooms can be independently controlled through installing temperature sensors or room thermostats in the rooms, satisfying the diverse needs of users.



Note: In one Hi-Therma system, up to 2 room thermostats and max. 6 wall mounted temp. sensors can be connected.

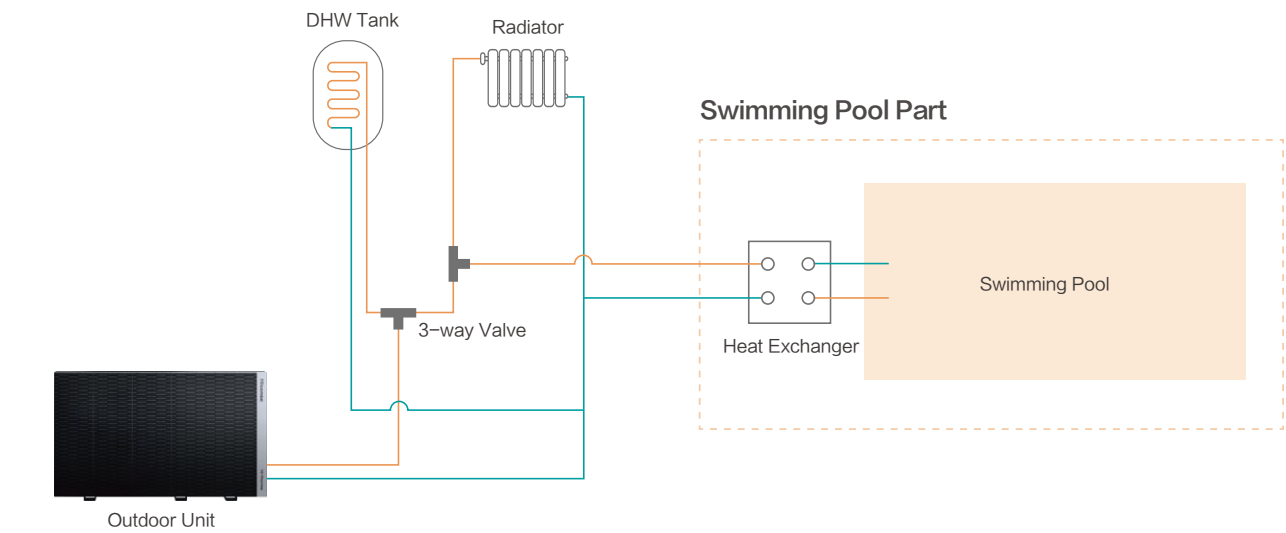
Interlock with 3rd Party Heat Source

Hi-Therma II Series can interlock with the 3rd party heat source, like the solar thermal or the boiler which can work as an auxiliary heat source. Thanks to the interlock design, both the user experience and energy efficiency can be optimized.



Swimming Pool Heating Available

Enhance your swimming experience with the Hi-Therma II Series which is capable of heating your swimming pool. When the swimming pool operation mode is activated, the hot water will go into the swimming pool heat exchanger, allowing to heat the swimming pool water to a comfortable temperature between 24°C and 33°C.



Easy Use

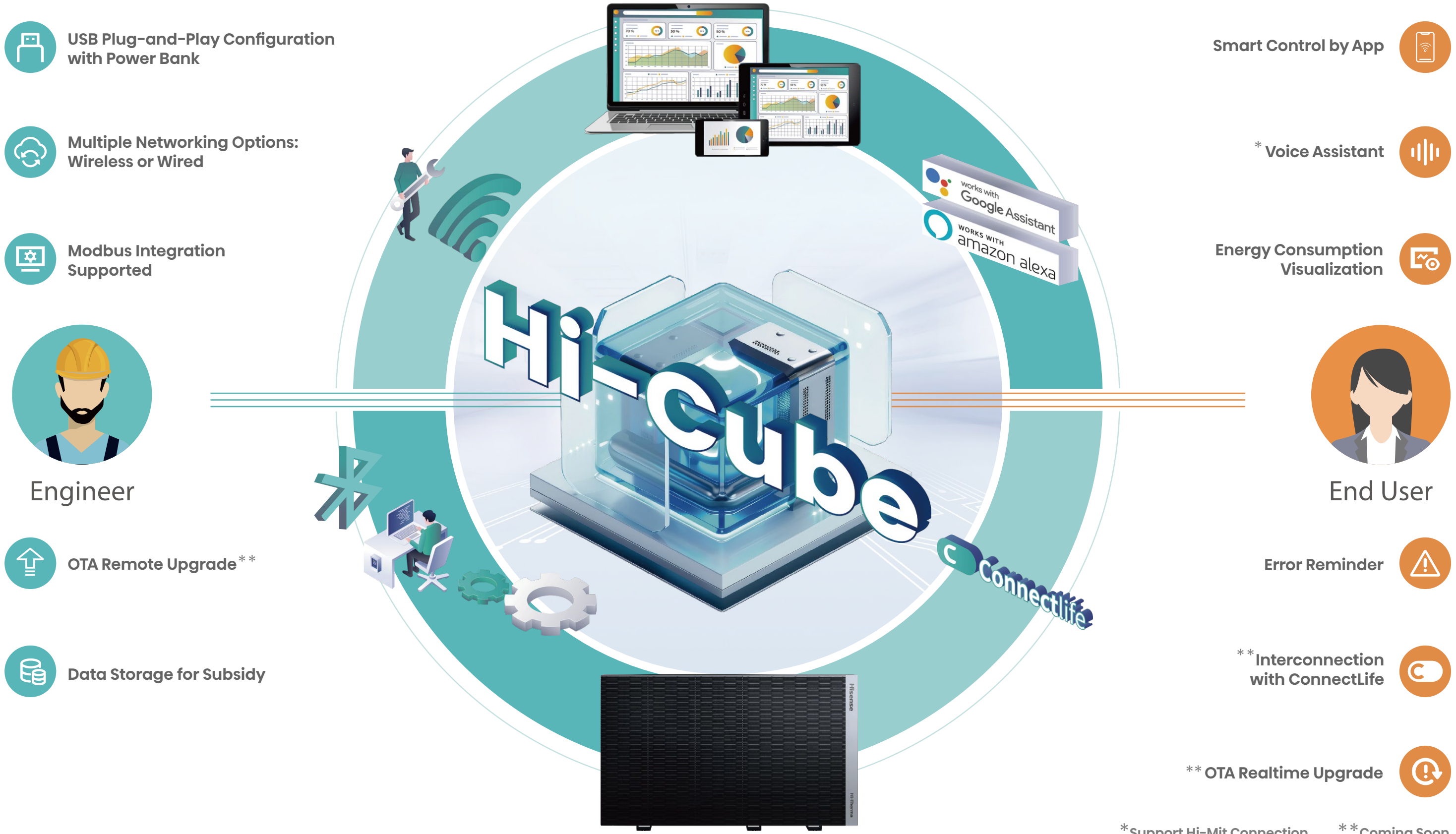
Hi-Cloud

ConnectLife

Third-party Voice Assistant
works with the Google Assistant
WORKS WITH amazon alexa



Software Upgrades

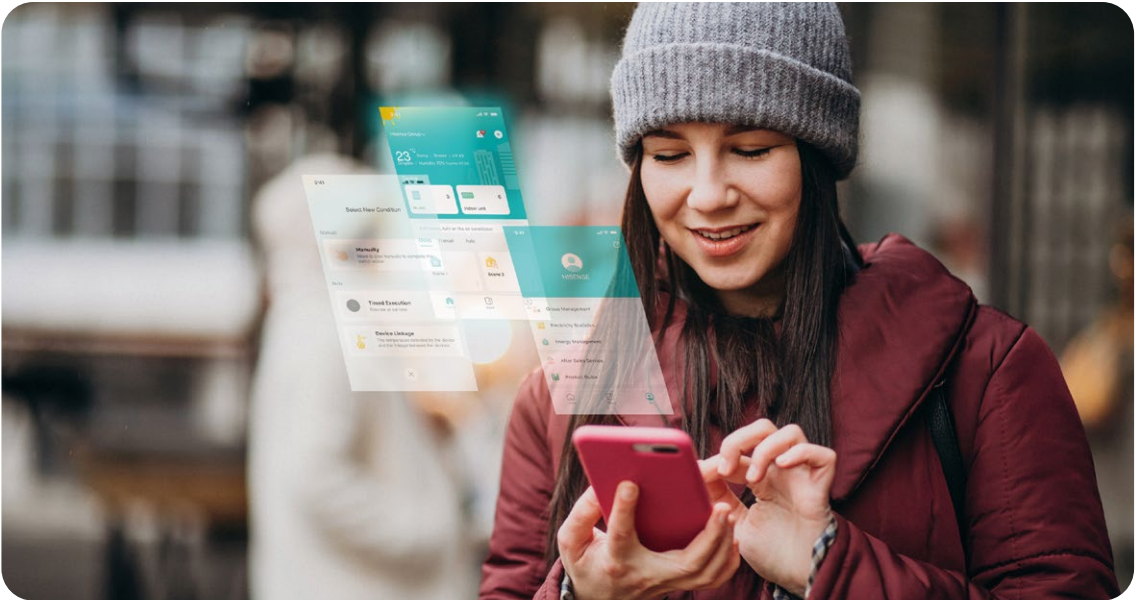


*Support Hi-Mit Connection ** Coming Soon

Smart Control by App

Whether you're at home or away, Hi-Cube keeps you connected, allowing you to manage and adjust settings effortlessly at anytime and anywhere, ensuring optimal performance and energy efficiency.

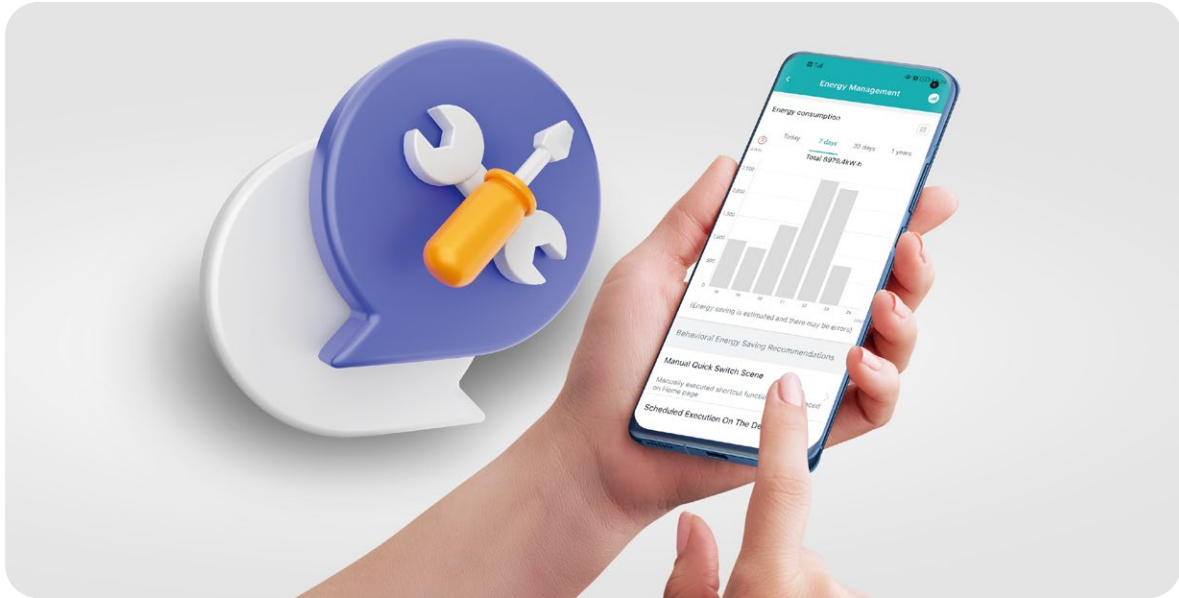
- on/off
- 14 languages available
- Multiple scenes setting (timer/holiday mode)
- Temp. setting of rooms, domestic hot water and water cycles
- Energy management display (daily/weekly/monthly/yearly)



Error Reminder

For any issues with Hi-Therma II, you can easily report them for repair with just one tap through the Hi-Mit, enjoying quick responses and professional services.

Our technicians can remotely assist in troubleshooting, reducing your waiting times.



Voice Assistant

When at home, you can wake up Hi-Therma II without having to walk over to it. Enjoy voice-controlled convenience to manage your home with compatibility for Alexa and Google Assistant.

Besides, it can also be compatible with the Connectlife home appliance integration control, where your fridge, washing machine, air conditioner, and more Hisense home appliances can be managed together in the same app.



*Note: ConnectLife is under development and will be available in Q4-2025

Energy Consumption Visualization

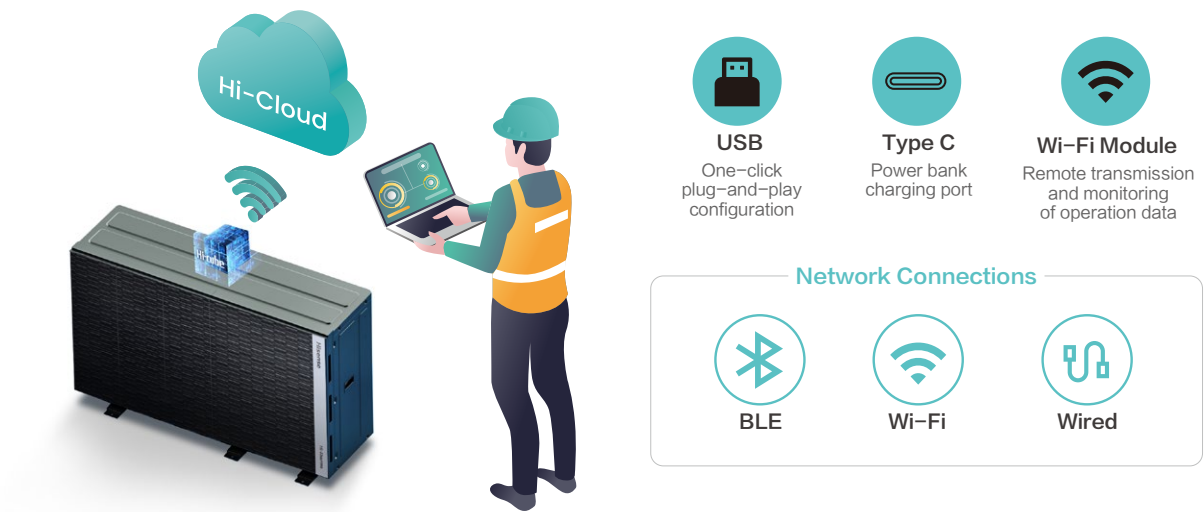
With advanced energy management features, Hi-Therma II enables you to check daily, weekly, and monthly electricity data, and set energy-saving modes accordingly, providing a more economical, efficient, and comfortable home.



USB Plug-and-Play Configuration

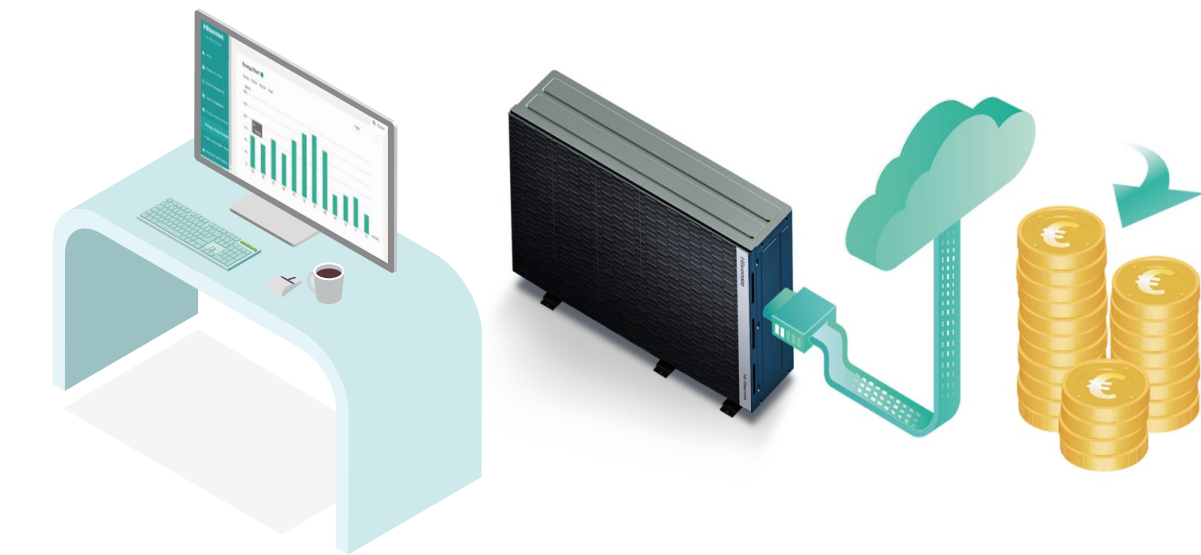
One-click Configuration Import: Just plug in the power bank and the unit powers up. With one click, you can import the configuration file, enabling the unit to be quickly activated.

One-click Configuration Export: Copy it to another machine of the same type for direct use, ensuring high operational reliability



Data Storage for Worry-free Subsidies

The USB feature can also log and upload the unit's real-time operation data every hour for a period of 10years, which can be used to apply for energy efficiency subsidies from Germany's Federal Office for Economic Affairs and Export Control(BAFA).



** OTA Remote Upgrade

OTA remote or USB on-site upgrades for both indoor and outdoor units, keeping the system always cutting-edge and future-proof.



**Coming Soon

Easy Installation



Easy Transportation with Compact Body

With only 840mm in height and min.114kg in weight, the Hi-Therma II Series allows for effortless transportation in both small vans and large trucks, making it easy to handle and install.



Easy Installation with Base Brackets

With three independent base brackets, the unit can be easily installed horizontally in different ground conditions without removing the grille.



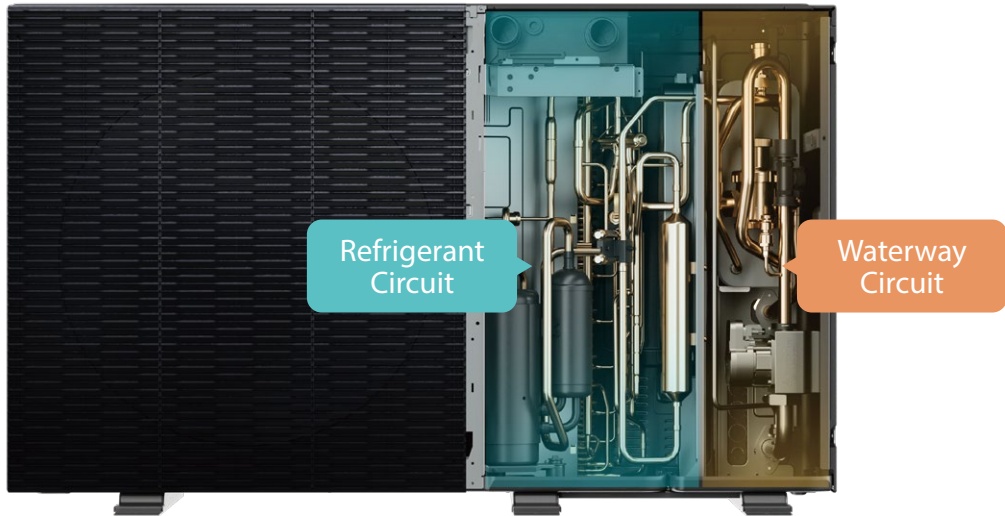
Detachable Modular Grilles

Previously, it was necessary to dismantle the entire grille when carrying out maintenance, which was time-consuming and troublesome. Now, the modular design allows service providers to remove only the section that needs repair. It not only improves the efficiency and convenience but also reduces the risk of accidental maloperations.



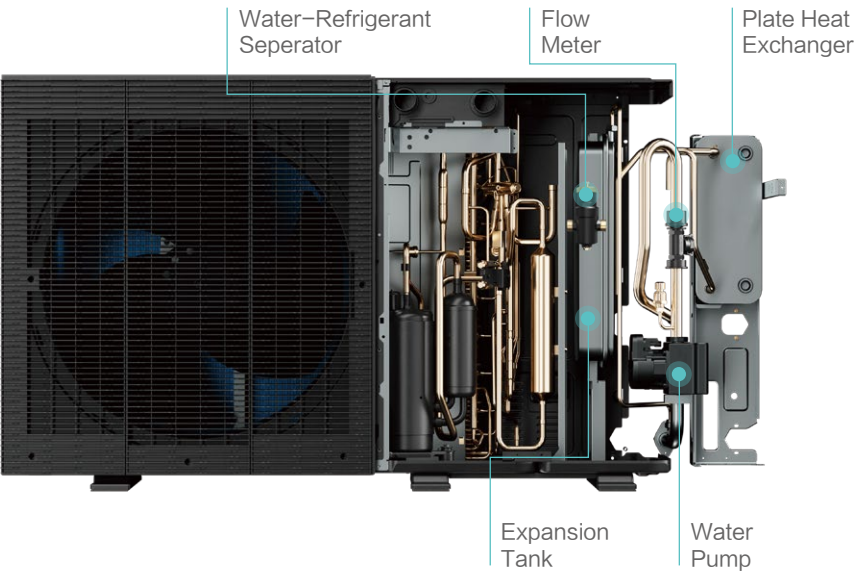
Convenient Curcuit Commissioning

There is no need for refrigerant operation on site, and the installation of the waterway can be completed by only one person, saving valuable time and labor costs while ensuring each component is thoroughly inspected for optimal system reliability.



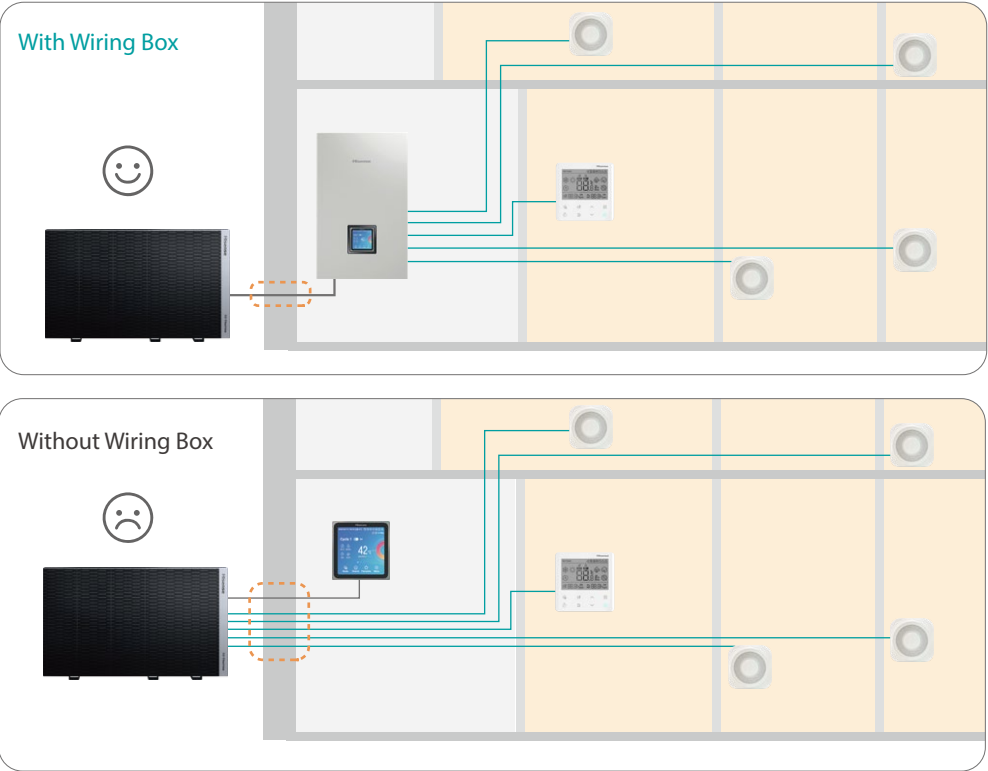
Integrated Waterway Components

Hi-Therma II series featuring all-in-one design allows easy installation without additional refrigerant piping work and refrigerant charge. Only the connection of water pipes is required on site, which greatly simplifies the on-site installation work.

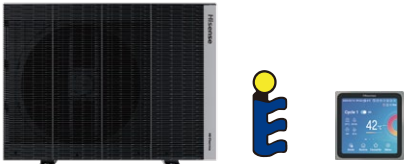


Wiring Box Connection

The wiring box and the outdoor unit can be connected with just one cable, minimizing wall penetration and shortening total wiring length. It greatly reduces labor and time costs, making it more cost-effective and time-saving than ever before.



Specification



Outdoor Unit Mode				AHZ-050HCPB1A	AHZ-080HCPB1A	AHZ-100HCPB1A
Power Supply				1N, 220-240V, 50Hz		
Nominal Heating Operation*1	7 / 6 °C	OAT (DB/WB)	IWT / OWT	-	Parameters	
		30 / 35 °C	Capacity	kW	5.00	8.00
			COP	-	5.20	5.10
		47 / 55 °C	Capacity	kW	5.00	8.00
			COP	-	3.15	3.20
	-7 / -8 °C	30 / 35 °C	Capacity	kW	5.00	8.00
			COP	-	3.00	3.00
		47 / 55 °C	Capacity	kW	5.00	7.00
			COP	-	2.20	2.15
Nominal Cooling Operation*1	35 / -- °C	12 / 7 °C	Capacity	kW	5.50	8.00
			EER	-	3.30	3.30
		23 / 18 °C	Capacity	kW	5.50	8.00
			EER	-	5.20	5.00
			SCOP	-	5.08	5.05
			Seasonal Heating Efficiency (ηs)	%	200	199
Seasonal Performance*2	Water Outlet 35°C	Energy Rating		-	A+++	A+++
		SCOP		-	3.81	3.93
		Seasonal Heating Efficiency (ηs)		%	149	154
	Water Outlet 55°C	Energy Rating		-	A++	A+++
		SCOP		-	3.81	3.93
		Seasonal Heating Efficiency (ηs)		%	149	154
Sound Pressure*3	Normal Mode		dB(A)	42	42	43
	Low Noise Mode		dB(A)	38	38	39
	Night shift Mode		dB(A)	36	36	37
Sound Power		Normal Mode	dB(A)	53	53	54
Fan	Condenser Fan Quantity		-	1	1	1
	Air Flow Rate		m3/h	2870	3780	3780
Outer Dimensions	Height×Width×Depth		mm	845×1376×426		
Packing Dimensions	Height×Width×Depth		mm	1025×1500×570		
Net Weight			kg	114	122	122
Gross Weight			kg	137	145	145
Refrigerant System	Compressor	Type	-	Rotary		
		Quantity	-	1		
	Refrigeration Oil	Type	-	PAG VG60		
		Charge	L	0.6	0.83	0.83
	Refrigeration Charge	Type	-	R290		
		Before Shipment	kg	0.90	0.98	0.98
Operation Range	Heating	Outdoor ambient temperature	°C (DB)	-25~35		
		Outlet water temperature	°C	20~75		
	Cooling	Outdoor ambient temperature	°C (DB)	5~48		
		Outlet water temperature	°C	5~22		
	DHW	Outdoor ambient temperature	°C (DB)	-25~46		
		Tank water temperature	°C	30~75		
Water Flow Rate	IWT: 30 °C / OWT: 35 °C ΔT: 5 °C		m3/h	0.86	1.38	1.72
DC Water pump	Type		-	Inverter		
	Max. Lift Pressure		m	9		
	Max. Water Flow Rate		m3/h	4.5		
	Max. Power Input		W	95		
Valve	Safety Valve		-	Yes (3 bar)		
	Shut-off Valve		in.	1", DN25		
	Connection type		-	Screwed connection		
Water Installation	Shutdown valves		mm (in.)	G1"(male)-G1"(female)		
	Inlet pipe diameter		mm (in.)	G1"(female)		
	Outlet pipe diameter		mm (in.)	G1"(female)		

*1: Heating/Cooling nominal performances at full load conditions according to EN 14511. heating performance are integrated (included defrost cycles).

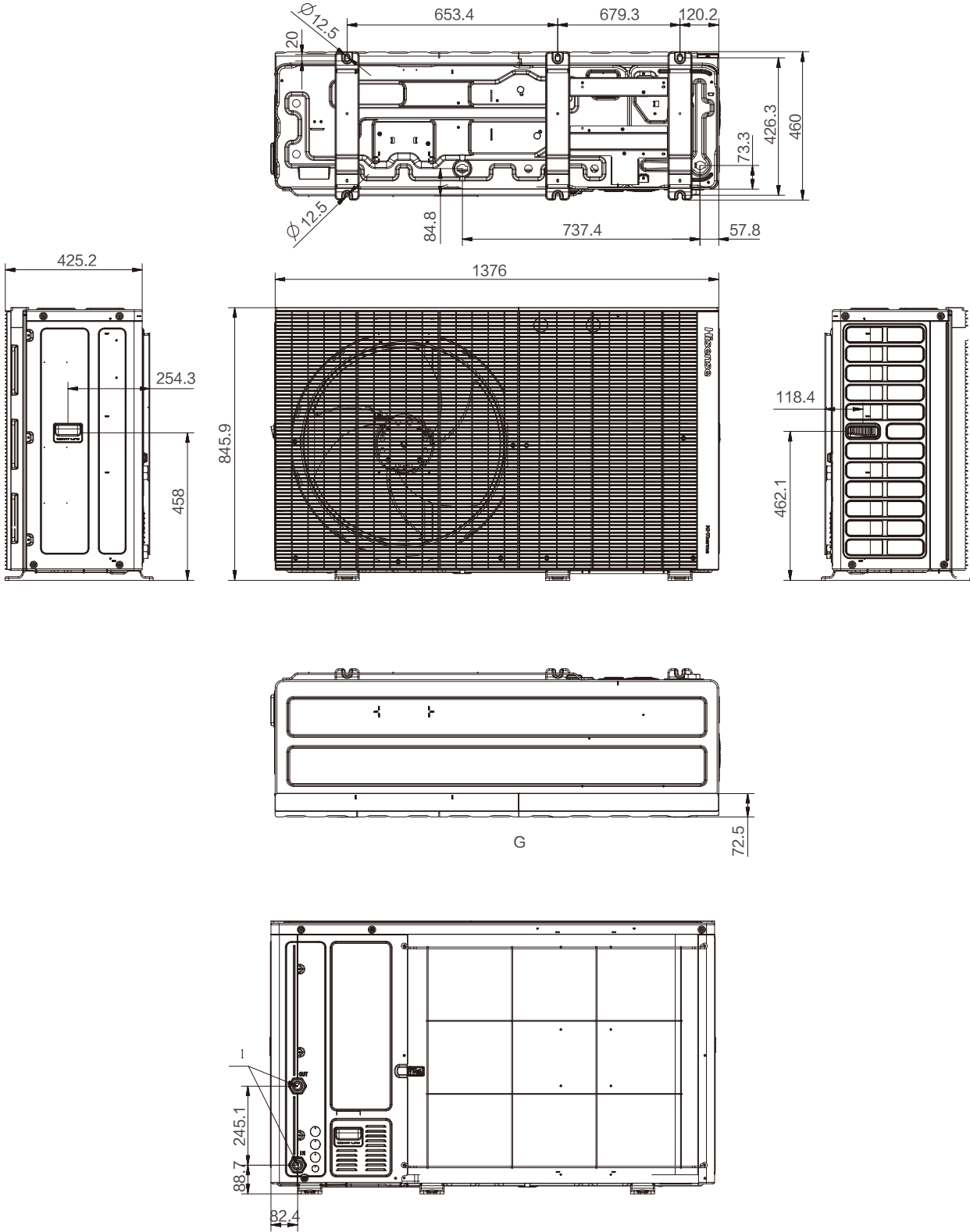
*2: According to EN14825. Climate Zone AVERAGE. Energy efficiency scale from A + + + to D.

*3: The sound power level is measured according to EN12102 under EN14825 (part load) conditions.The above noise values are measured in the anechoic chamber without reflected echo, therefore the impact of the reflected echo must be taken into consideration at the scene.

OAT: Outdoor ambient temperature; IWT: Inlet water temperature; OWT: Outlet water temperature

Dimensions

Unit: mm



Specification



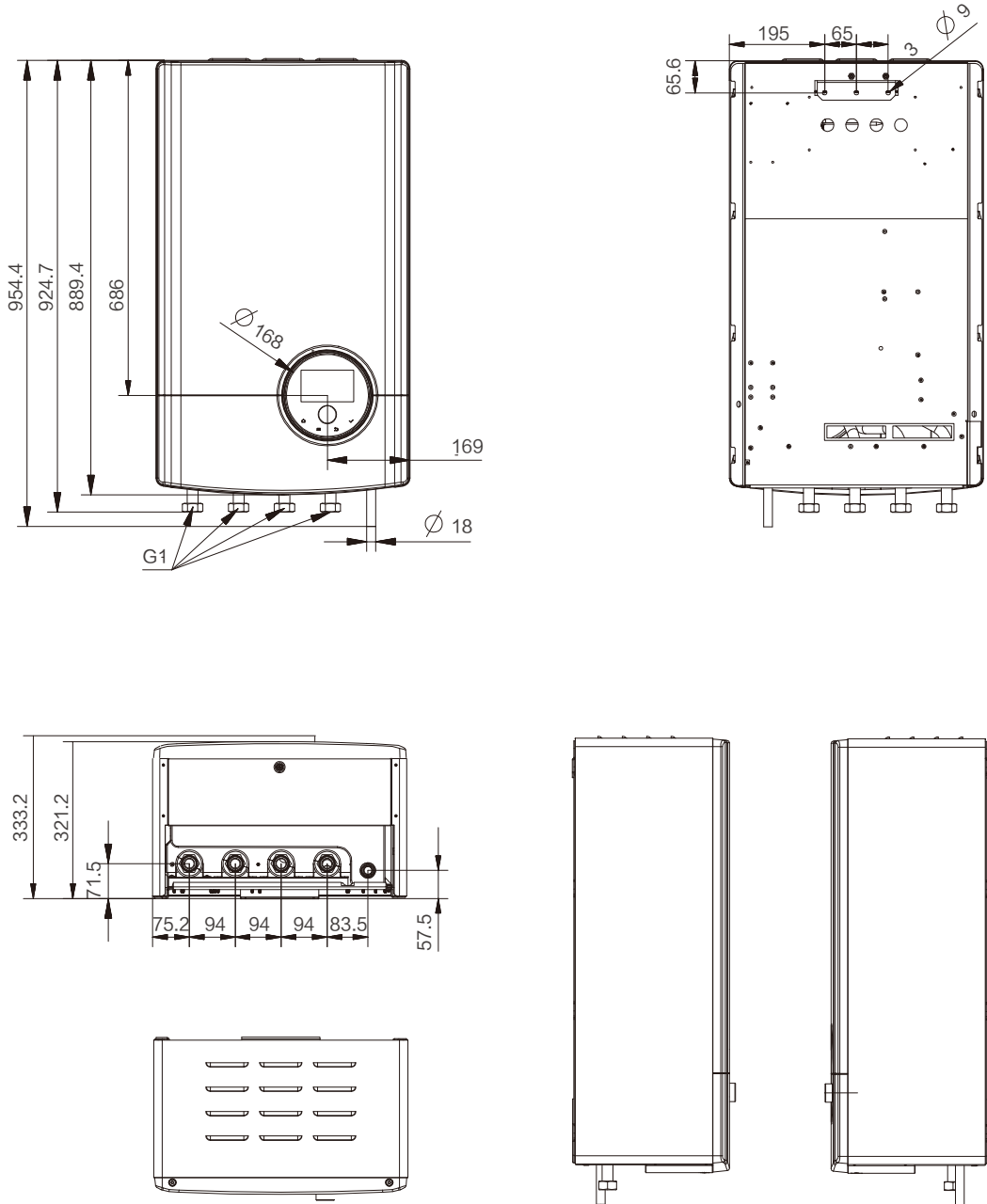
Outdoor Unit Mode				AHW-050HCPB1		AHW-080HCPB1		AHW-100HCPB1			
Power Supply				1N, 220-240V, 50Hz							
Nominal Heating Operation*1	OAT (DB/WB)	IWT / OWT	-	Parameters							
			Capacity	kW		5.00		8.00		10.00	
		30 / 35 °C	COP	-		5.20		5.10		4.80	
		47 / 55 °C	Capacity	kW		5.00		8.00		10.00	
	-7 / -8 °C	COP	-		3.15		3.20		3.10		
		30 / 35 °C	Capacity	kW		5.00		8.00		10.00	
		COP	-		3.00		3.00		2.80		
		47 / 55 °C	Capacity	kW		5.00		7.00		8.00	
Nominal Cooling Operation*1	35 / -- °C	12 / 7 °C	Capacity	kW		5.50		8.00		9.00	
			EER	-		3.30		3.15		3.10	
		23 / 18 °C	Capacity	kW		5.50		8.00		10.00	
		EER	-		5.20		5.00		4.70		
	Seasonal Performance*2	Water Outlet 35°C	SCOP	-		5.08		5.01		4.89	
			Seasonal Heating Efficiency (ηs)	%		200		197		192	
			Energy Rating	-		A+++		A+++		A+++	
		Water Outlet 55°C	SCOP	-		3.75		3.73		3.61	
Seasonal Heating Efficiency (ηs)			%		147		146		142		
Energy Rating			-		A++		A++		A++		
Sound Pressure*3	Normal Mode		dB(A)	42		42		43			
	Low Noise Mode		dB(A)	38		40		40			
	Night shift Mode		dB(A)	37		38		38			
Sound Power	Normal Mode		dB(A)	54		54		55			
Fan	Condenser Fan Quantity		—	1		1		1			
	Air Flow Rate		m3/h	2870		3780		3780			
Outer Dimensions	Height×Width×Depth			mm		845×1100×426					
Packing Dimensions	Height×Width×Depth			mm		1135×1235×570					
Net Weight			kg		87		95		95		
Gross Weight			kg		111		119		119		
Refrigerant System	Compressor	Type	—		Rotary		Rotary		Rotary		
		Quantity	—		1		1		1		
	Refrigeration Oil	Type	—		PAG VG60		PAG VG60		PAG VG60		
		Charge	L		0.6		0.83		0.83		
	Refrigeration Charge	Type	—		R290		R290		R290		
		Before Shipment	kg		0.90		0.98		0.98		
Minimum piping length			m		4		4		4		
Operation Range	Heating	Outdoor ambient temperature	°C (DB)		-25~35		-25~35		-25~35		
		Outlet water temperature	°C		20~75		20~75		20~75		
	Cooling	Outdoor ambient temperature	°C (DB)		5~48		5~48		5~48		
		Outlet water temperature	°C		5~22		5~22		5~22		
	DHW	Outdoor ambient temperature	°C (DB)		-25~46		-25~46		-25~46		
		Tank water temperature	°C		30~75		30~75		30~75		
Water Flow Rate			IWT: 30 °C / OWT: 35 °C ΔT: 5 °C		m3/h		0.86		1.38		
Water Installation	Connection type			-		Screwed connection					
	Shut-off valves			mm (in.)		G 1" (female) - G 1" (female)					
	Inlet pipe diameter			mm (in.)		G 1" (female)					
	Outlet pipe diameter			mm (in.)		G 1" (female)					

Indoor Unit Mode			AHM-100HCWBAA
Power Supply			1N, 220-240V, 50Hz
Outer Dimensions (with connections)	Height×Width×Depth	mm	890×520×320
Packing Dimensions	Height×Width×Depth	mm	419×1160×650
Net Weight		kg	40
Gross Weight		kg	46
DC Water pump	Type	-	Inverter
	Max. Lift Pressure	m	9
	Max. Water Flow Rate	m3/h	4.5
	Max. Power Input	W	95
Valve	Safety Valve	-	Yes (3 bar)
	Shut-off Valve	in.	1", DN25
	Connection type	-	Screwed connection
Piping connection	Inlet pipe diameter (from outdoor unit)	in.	G 1" (female)
	Outlet pipe diameter (to outdoor unit)	in.	G 1" (female)
	Inlet pipe diameter (from space heating and water heating)	in.	G 1" (female)
	Outlet pipe diameter (to space heating and water heating)	in.	G 1" (female)
Noise level (sound pressure)		dB(A)	30
Noise level (sound power)		dB(A)	44

*1: Heating/Cooling nominal performances at full load conditions according to EN 14511. heating performance are integrated (included defrost cycles).
*2: According to EN14825. Climate Zone AVERAGE. Energy efficiency scale from A +++ to D.
*3: The sound power level is measured according to EN12102 under EN14825 (part load) conditions.The above noise values are measured in the anechoic chamber without reflected echo, therefore the impact of the reflected echo must be taken into consideration at the scene.
OAT: Outdoor ambient temperature; IWT: Inlet water temperature; OWT: Outlet water temperature

Dimensions

Unit: mm



Specification



Outdoor Unit Mode				AHW-050HCPB1		AHW-080HCPB1		AHW-100HCPB1				
Power Supply				1N, 220-240V, 50Hz								
Nominal Heating Operation*1	OAT (DB/WB)	IWT / OWT	-	Parameters								
	7 / 6 °C	30 / 35 °C	Capacity	kW		5.00		8.00		10.00		
			COP	-		5.20		5.10		4.80		
		-7 / -8 °C	47 / 55 °C	Capacity	kW		5.00		8.00		10.00	
				COP	-		3.15		3.20		3.10	
	-7 / -8 °C		30 / 35 °C	Capacity	kW		5.00		8.00		10.00	
				COP	-		3.00		3.00		2.80	
		-7 / -8 °C	47 / 55 °C	Capacity	kW		5.00		7.00		8.00	
COP				-		2.20		2.15		2.15		
Nominal Cooling Operation*1	35 / -- °C		12 / 7 °C	Capacity	kW		5.50		8.00		9.00	
				EER	-		3.30		3.15		3.10	
		23 / 18 °C	Capacity	kW		5.50		8.00		10.00		
			EER	-		5.20		5.00		4.70		
		Seasonal Performance*2	Water Outlet 35°C	SCOP	-		5.08		5.01		4.89	
				Seasonal Heating Efficiency (ηs)	%		200		197		192	
Energy Rating	-			A+++		A+++		A+++				
Water Outlet 55°C	SCOP		-		3.75		3.73		3.61			
	Seasonal Heating Efficiency (ηs)		%		147		146		142			
	Energy Rating		-		A++		A++		A++			
Sound Pressure*3	Normal Mode		dB(A)		42		42		43			
	Low Noise Mode		dB(A)		38		40		40			
	Night shift Mode		dB(A)		37		38		38			
Sound Power	Normal Mode		dB(A)		54		54		55			
Fan	Condenser Fan Quantity		—		1		1		1			
	Air Flow Rate		m3/h		2870		3780		3780			
Outer Dimensions	Height×Width×Depth			mm		845×1100×426						
Packing Dimensions	Height×Width×Depth			mm		1135×1235×570						
Net Weight			kg		87		95		95			
Gross Weight			kg		111		119		119			
Refrigerant System	Compressor	Type	—		Rotary		Rotary		Rotary			
		Quantity	—		1		1		1			
	Refrigeration Oil	Type	—		PAG VG60		PAG VG60		PAG VG60			
		Charge	L		0.6		0.83		0.83			
	Refrigeration Charge	Type	—		R290		R290		R290			
		Before Shipment	kg		0.90		0.98		0.98			
Minimum piping length			m		4		4		4			
Operation Range	Heating	Outdoor ambient temperature	°C (DB)		-25~35		-25~35		-25~35			
		Outlet water temperature	°C		20~75		20~75		20~75			
	Cooling	Outdoor ambient temperature	°C (DB)		5~48		5~48		5~48			
		Outlet water temperature	°C		5~22		5~22		5~22			
	DHW	Outdoor ambient temperature	°C (DB)		-25~46		-25~46		-25~46			
		Tank water temperature	°C		30~75		30~75		30~75			
Water Flow Rate	IWT: 30 °C / OWT: 35 °C ΔT: 5 °C			m3/h		0.86		1.38		1.72		
Water Installation	Connection type			-		Screwed connection						
	Shut-off valves			mm (in.)		G 1" (female) - G 1" (female)						
	Inlet pipe diameter			mm (in.)		G 1" (female)						
	Outlet pipe diameter			mm (in.)		G 1" (female)						

Indoor Unit Mode			AHS-100HCWBAA-23	
Power Supply			1N, 220-240V, 50Hz	
Outer Dimensions (with connections)	Height×Width×Depth	mm	1885×590×625	
Packing Dimensions	Height×Width×Depth	mm	2070×700×710	
Net Weight		kg	121	
Gross Weight		kg	141	
DC Water pump	Type	-	Inverter	
	Max. Lift Pressure	m	9	
	Max. Water Flow Rate	m3/h	4.5	
	Max. Power Input	W	95	
Valve	Safety Valve	-	Yes (3 bar)	
	Shut-off Valve	in.	1", DN25	
Piping connection	Connection type	-	Screwed connection	
	Inlet pipe diameter (from outdoor unit)	in.	G 1" (female)	
	Outlet pipe diameter (to outdoor unit)	in.	G 1" (female)	
	Inlet pipe diameter (from space heating and water heating)	in.	G 1" (female)	
	Outlet pipe diameter (to space heating and water heating)	in.	G 1" (female)	
DHW pipes connection	Connection type	-	Screwed connection	
	Inlet pipe diameter	in.	G 3/4" (female)	
	Outlet pipe diameter	in.	G 3/4" (female)	
DHW tank rated volume		L	230	
Noise level (sound pressure)		dB(A)	28	
Noise level (sound power)		dB(A)	44	

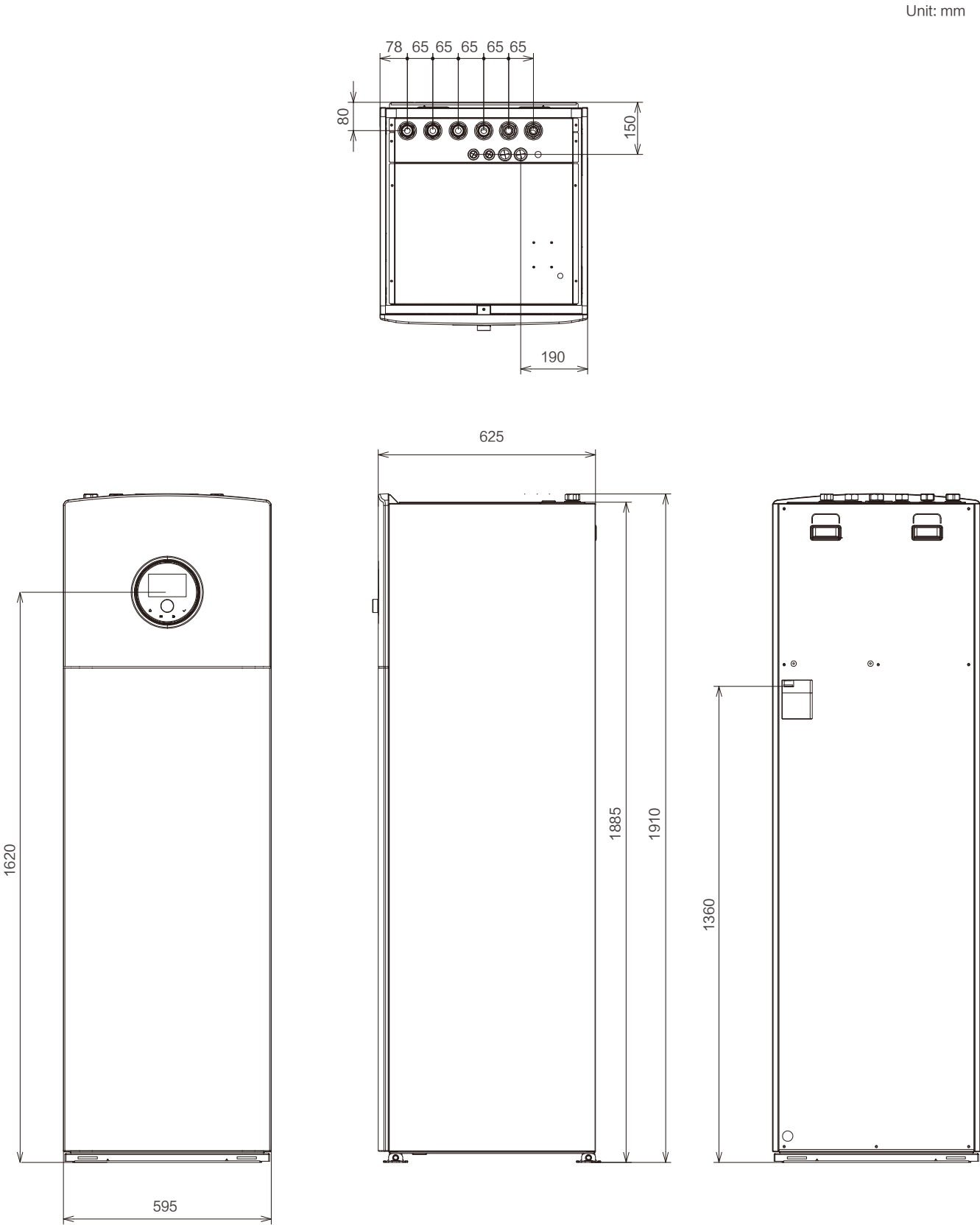
*1: Heating/Cooling nominal performances at full load conditions according to EN 14511. heating performance are integrated (included defrost cycles).

*2: According to EN14825. Climate Zone AVERAGE. Energy efficiency scale from A +++ to D.

*3: The sound power level is measured according to EN12102 under EN14825 (part load) conditions.The above noise values are measured in the anechoic chamber without reflected echo, therefore the impact of the reflected echo must be taken into consideration at the scene.

OAT: Outdoor ambient temperature; IWT: Inlet water temperature; OWT: Outlet water temperature

Dimensions



Thermal tank

Hot water heating installation options

Why Hot Water Tank is an optimal solution for domestic use?

Whether your requirement is only hot water or integrate it with solar systems, we provide you with unparalleled solutions that prioritize most convenience, energy effectiveness, and reliability.

Convenience

Options are available in stainless steel with capacities of 200 and 300 liters HDHWT-200/300L30HE.

Effectiveness

Top-notch insulation ensures minimal heat loss. It can be used as a single unit or as part of an integrated system.

Reliability

To prevent the growth of bacteria, the unit can heat water up to 75°C at regular intervals.



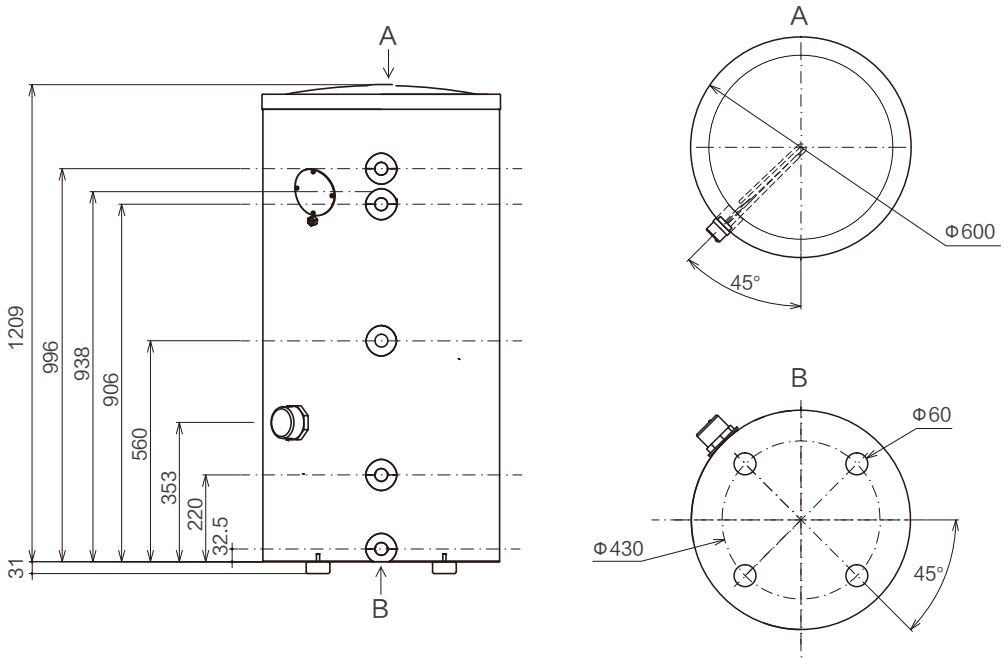
Specification

Model			HDHWT-200L30HE	HDHWT-300L30HE
Casing	Colour		Neutral white	
	Material		Epoxy coated steel / Epoxy-coated mild steel	
Tank	Empty weight	kg	49	60
	Net water volume	L	185	260
	Material	—	DUPLEX 2205	
	Maximum water temperature	°C	75	
	Energy efficiency class		B	
	Operating pressure	bar	6	
	max pressure	bar	10	
Heat exchanger	Tube material		Stainless steel (SUS316L)	
	Face area	m²	1.8	2.07
	Internal coil volume	L	9.9	11.4
	Operating pressure	bar	3	
Booster heater	Capacity	kW	3	
Power supply	Phase/Frequency/Voltage	V/Hz	1N, 220-240V, 50Hz	
Protection method			Temperature and pressure relief valve (95°C/0.6Mpa)	
Safety Thermostat	Automatic Reset	°C	75	
	Manual Reset	°C	87	

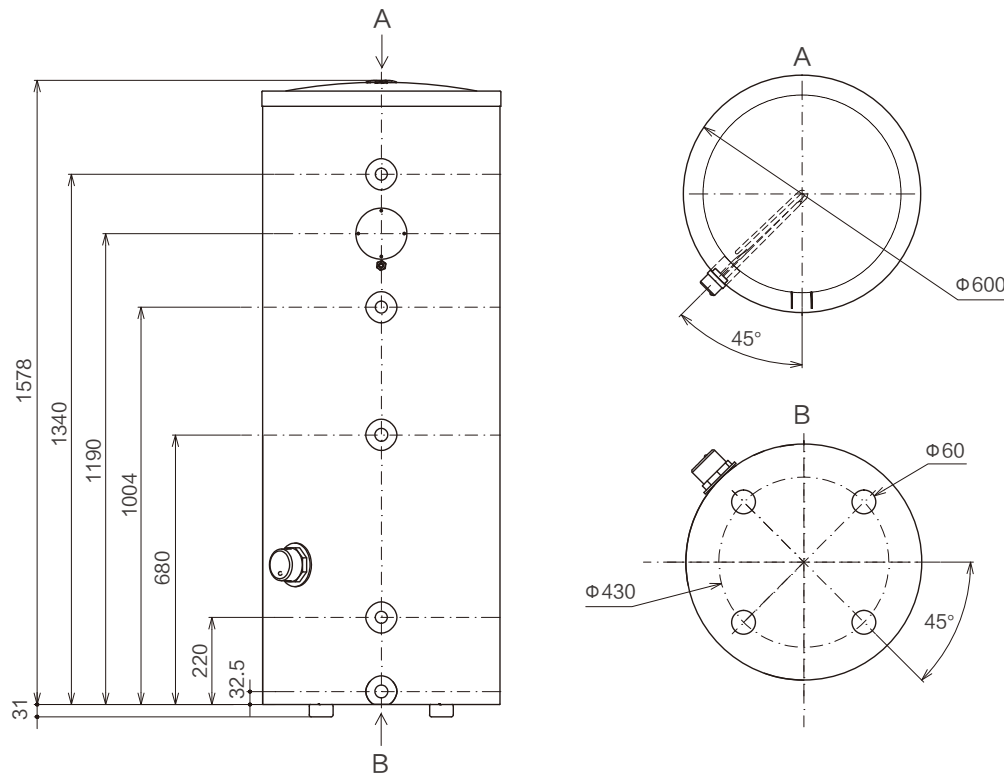
Dimensions

Unit: mm

200L



300L



Engineering Tools

Hi-Therma Designer

Hi-Therma Designer is a specialized program for choosing Hisense ATW heat pump products, enabling an accurate and quick model selection for projects. It's an online tool for quick and easy access, and fully compatible with computer, tablet and smartphone. The user could open and edit the project at any time and anywhere.

◆ User-friendly operation

This program provides a lot of pictures, schemas and explanations. With less input and choice, the user can get the proper selection quickly and easily.

◆ CO₂ emission calculation

The user can calculate the CO₂ emission that can be reduced from conventional heating systems with other energy.

◆ Selection comparison

Through this function, users can compare two different selections for one project, so as to get the best solution.

◆ Report

A professional report with full information and quotation can be output to submit to clients. The user can select the part of full size report to make a short report.

◆ Energy consumption calculation

The software includes the build-in climate history data for hundreds of cities, which enabling easy load calculation. Furthermore, the user can calculate the annual energy consumption and efficiency.

◆ Noise level assessment

The noise level to the closed house, such as neighbor's house, could be assessed with a simulation according to the outdoor unit installation.

◆ Customization of accessories

The installer can input and customize the accessories which is used to buy locally.

Features Overview

Environment Friendly



Award-Winning Futuristic Design



Interior Aesthetics Design



R290 Eco-Friendly Refrigerant



Triple Refrigerant Safety Protection



High SCOP Performance



A+++ Energy Efficiency



Maximize Energy Utilization with PV Interlocked

ECO Comfort



Up to 75°C Outlet Water at -10°C



-7°C Heating Capability Unaffected



Wide Operation Range



Whisper-quiet Operation



Bottom Anti-frosting Design



Two Separate Temp. Cycles



Interlock with 3rd Party Heat Source



Swimming Pool Heating Available

Easy Use



Remote Control Anywhere and Anytime



smart control with voice assistant (Hi-Mit)



Interconnection with ConnectLife (coming soon)



Energy Consumption Visualization (Hi-Mit)



OTA Remote Software Upgrade (coming soon)



USB Plug-and-Play Configuration



Multiple Networking Methods



Data Storage for Subsidies

Easy Installation



Easy Transportation with Compact Body



Easy Installation with Adjustable Base Brackets



Detachable Modular Grilles



Convenient Curcuit Commissioning



Integrated Waterway Components



Wiring Box

<https://www.hitherma-designer.com>



NOTE

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NOTE

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NOTE

Lined area for notes.

Hisense HVAC
Reimagine your solution