

High Efficiency and Excellent Performance



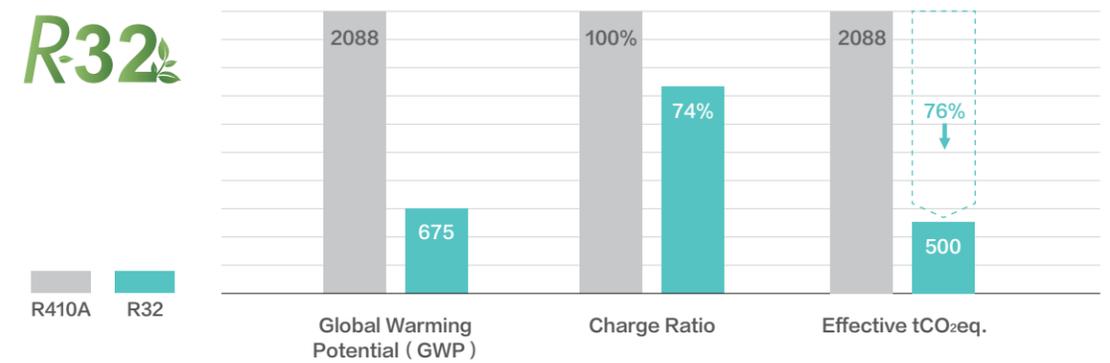
Eco-friendly Refrigerant R32

R32 refrigerant contributes to meeting the F-gas regulation targets as described in EU regulation 517/2014. Hisense Hi-Therma heat pump system adopts R32 refrigerant, which is a perfect solution for attaining the new European CO2 emission targets.

Features

- ◆ Zero Ozone Depletion Potential (ODP)
- ◆ Lower Global Warming Potential (GWP)
- ◆ Less charge amount under the same capacity
- ◆ Single component refrigerant, easy to handle and recycle

R-32



High Efficiency A+++

Hi-Therma offers the best and efficient solution for home heating and hot water supply. It has the top class A+++ energy classification under the low-temperature water condition, and A++ under the mid-temperature water condition, which ensures you make savings on your energy bills, reducing electricity consumption and the impact on the environment.

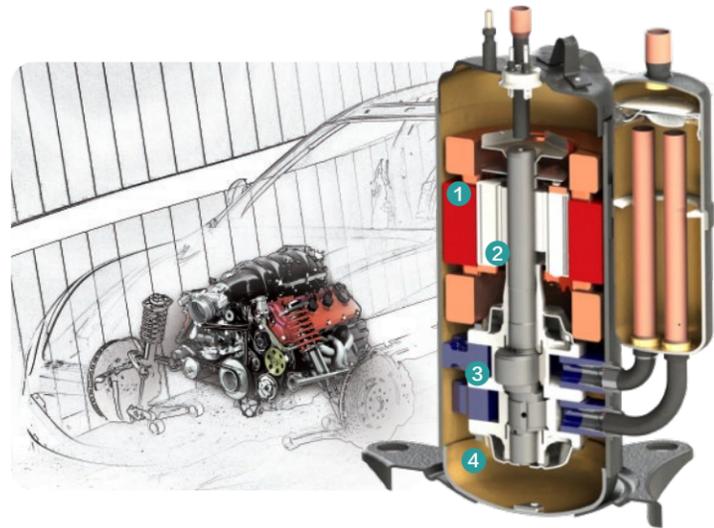


*Take AHW-060HCDS1, AHM-060HCDSAA as an example.

High-efficiency DC Inverter Compressor

A high-efficiency DC inverter twin rotary compressor is adopted. It features unique dual-pressure chamber design and symmetrical location, which can effectively reduce the vibration and noise and improve the compressor performance, especially the performance under low-frequency operation.

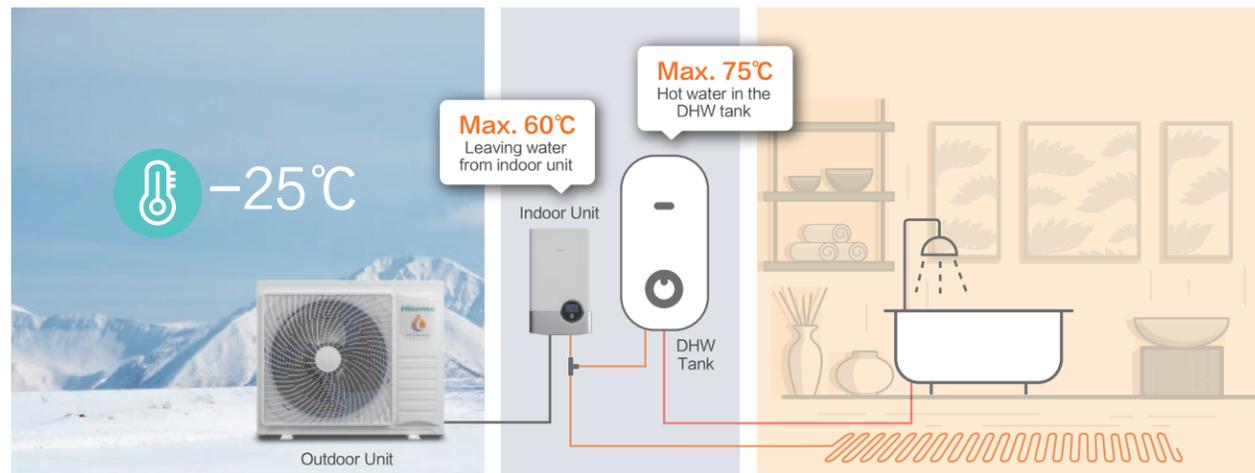
Moreover, the twin rotary compressor has a small lubricating oil injection volume with stable oil return, and comes with a gas-liquid separator, which makes the system more reliable.



- 1 High-efficiency motor**
 Optimize the motor design to improve compressor performance.
- 2 Optimized rotor design**
 Lower the center of gravity of the compressor to reduce the noise and vibration.
- 3 Flat mechanism design**
 Improve the volumetric efficiency and the total performance.
- 4 Screw interactive fastening**
 Improve fastening effect and reduce deformation of the core.

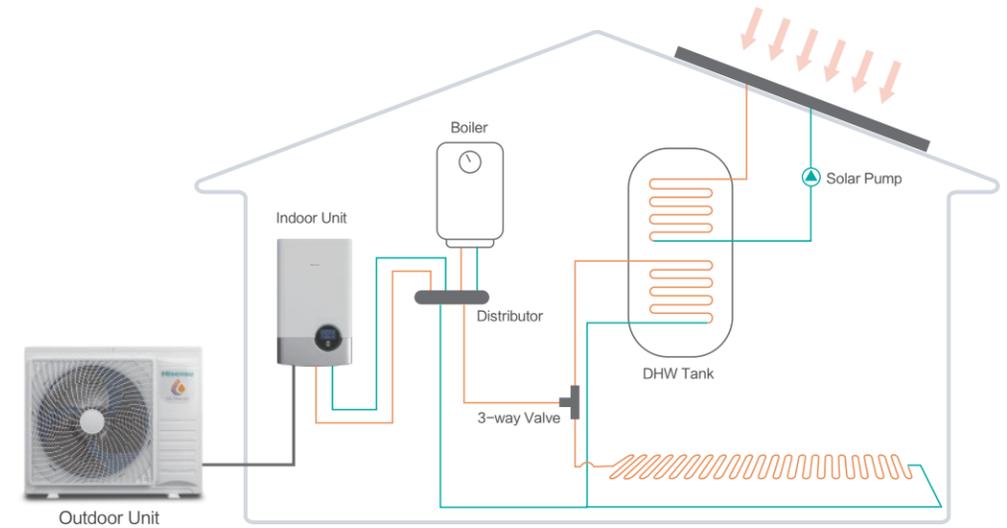
Wide Operation Range

Stable operation is guaranteed, even with outdoor temperatures as low as -25°C , effectively satisfying the heating demand in extremely cold areas. It can generate up to 60°C leaving water from the indoor unit. Besides, the operation range of DHW is extended to 40°C , and the water inside the water tank can achieve max. 75°C with electric heater, enabling effective sterilization.



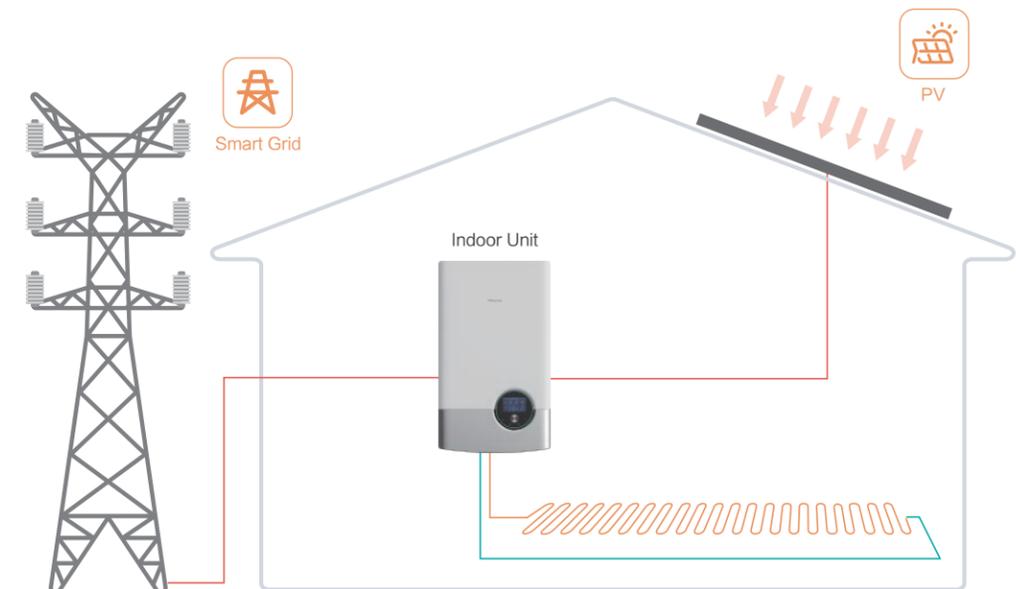
Interlock with 3rd Party Heat Source

Hi-Therma system 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.



Smart Grid Interlock and PV Enabled

Hi-Therma system can be integrated into the smart grid, to achieve a low-cost operation required to meet carbon reduction targets. Also, the system can be integrated to the Photovoltaic(PV), saving energy through renewable sources. The system's potential can be maximised by connecting to Smart Grid or Photovoltaic(PV).



Stylish Controller in Indoor Unit

Excellent human-computer interaction experience

The indoor unit has a built-in large colorful screen wired controller, which can be easily operated through the knob and the buttons, and all water cycles and rooms can be configured separately. The main interface can intuitively displays the settings of each water cycles and the current water temperature in real time. The LED light strip around the wire controller can intuitively indicate the current operating mode.

Light strip

The intuitive light strip shows you in real time the status of your system.

- Blue:** cooling mode or defrost mode.
- Yellow:** heating mode.
- Orange:** domestic hot water mode.
- Red:** malfunction



Quick access

Quick access to frequent settings, including six items – lock, DHW boost, holiday, quiet mode, auto heat, night-shift mode. All these functions can be activated according to users' need.

Fluency of knob operation

All the operations can be accessed through the knob smoothly.

High-resolution colorful screen

The HD colorful screen delivers stunning and clear visual reference, enabling excellent user experience.

Proper interface zones

There are four functional zones, Cycle 1, Cycle 2, DHW, SWP. Each zone has intuitive parameter display, easy to check and set.



Easy operation

Just rotate the knob to quickly go through all the functions, no need to click other buttons, convenient and fluently.

Quickly confirm the selection



Energy consumption display

Energy data can be viewed easily, including annual energy data, monthly energy data, daily energy data, which will help users to do effective energy management.

General Features

- ◆ Installation Wizard with easy setting for all site configuration
- ◆ Support 10 languages(EN, DE,FR, PL, etc.)
- ◆ Direct visualization of energy consumption and running capacity
- ◆ Centralized control for different water cycles and individual control for rooms
- ◆ Alarm code and advanced parameter display, convenient for maintenance
- ◆ Weekly Timer and Holiday mode support.
- ◆ ECO/ Quiet/ Night shift mode fit for different user needs.

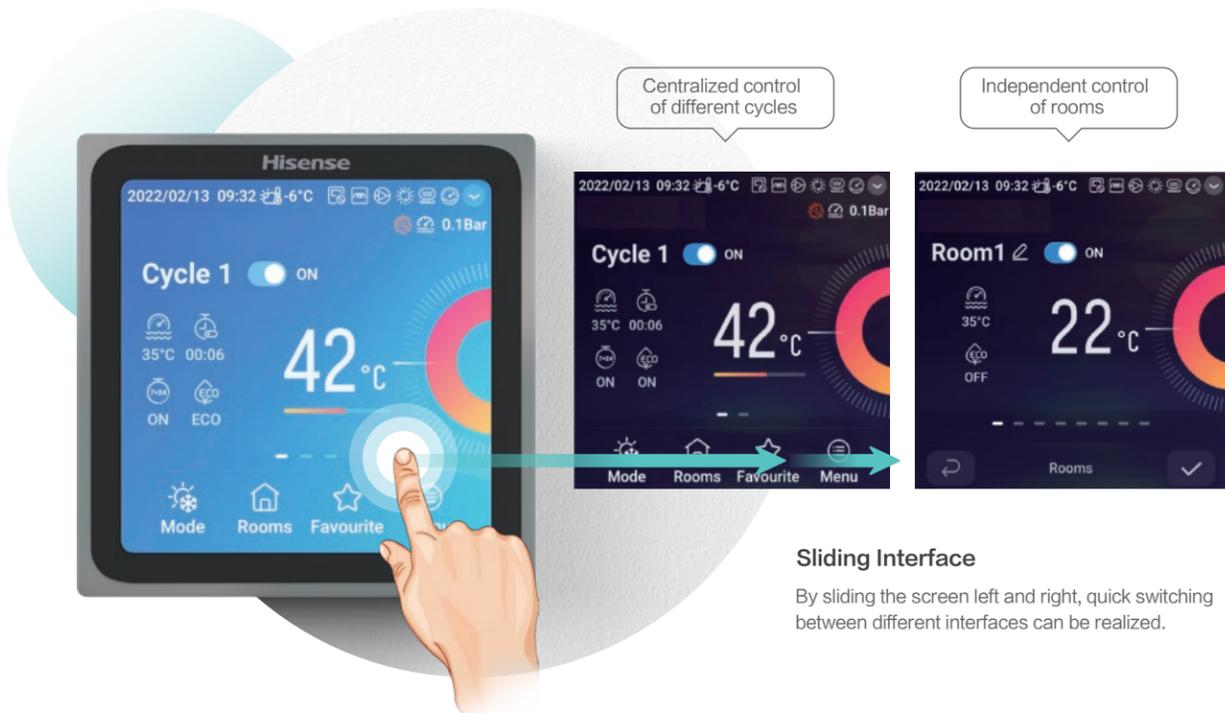
Installation Wizard–Quick to configure

When commissioning for the first time, the installation wizard will appear, and the users can make a smooth step-by-step configuration.



Colorful Touch Controller

Standard for Monobloc and optional for split



Centralized control of different cycles

Independent control of rooms

Sliding Interface

By sliding the screen left and right, quick switching between different interfaces can be realized.

HSXM-FE01

- ◆ Sleek and elegant design
- ◆ Compact, measures only 90 × 90mm
- ◆ Intuitive touch-button control

General Features

- ◆ Installation Wizard with easy setting for all site configuration
- ◆ Support 10 languages(EN, DE,FR, PL, etc.)
- ◆ Direct visualization of energy consumption and running capacity
- ◆ Centralized control for different water cycles and individual control for rooms
- ◆ Alarm code and advanced parameter display, convenient for maintenance
- ◆ Weekly Timer and Holiday Mode support.
- ◆ ECO/ Quiet/ Night shift mode fit for different user needs.
- ◆ Suitable for a variety of installation methods, either exposed or concealed
- ◆ Physical button at the bottom for easy on/off and reset



Sliding Adjusting

The temperature can be adjusted smoothly and quickly by sliding the semicircle, especially for large temperature ranges adjustment.

There is a physical button at the bottom, easy on/off and reset, and don't affect the aesthetics due to its hidden design.

Physical Button

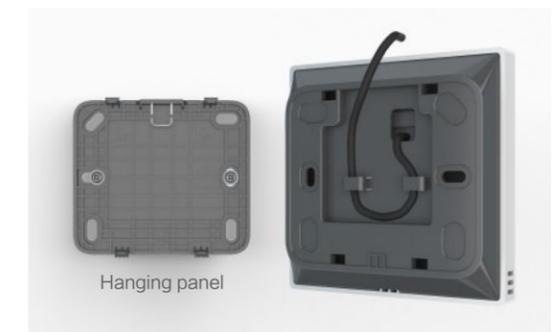
Themes Setting

There are three themes in total, Day, Night and Auto, which can apply to different scenarios at different time, delivering a comfortable and balanced interface display.



Easy Installation

During the excelsior product design, we give full consideration to the convenience of installation. Thanks to the hanging panel, it's very convenient to install and disassemble. Besides, there is a built-in slot, flexible for wires routing.



Room Thermostat

It can not only set the rooms' temperature, but also accurately link with indoor unit, to feedback the room's load change in real time, ensuring comfortable indoor temperature and high-efficiency operation.



HSXE-VC04

- ◆ Sleek and elegant design
- ◆ Compact, measures only 86 × 86mm
- ◆ Intuitive touch-button control

General Features

- ◆ Compact body and stylish appearance
- ◆ Convenient room temp. & DHW setting
- ◆ Flat backboard, easy-to-install
- ◆ ECO/DHW boost/Timer(0.5-24h)

One-button Switch to DHW Setting

Users can switch to the domestic hot water mode setting with one touch to realize the control of the water system, which is very convenient, no need to do the setting in other controllers.

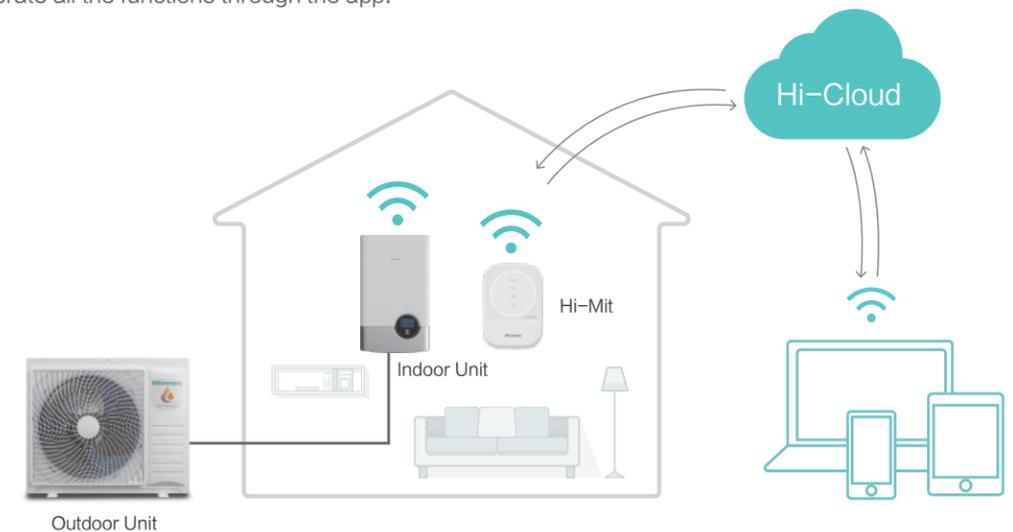


Smart APP Control

Hisense Smart APP control is for those who live their life on the go and who want to manage their heating system at anytime and anywhere.

How it works

After connecting the Hi-Mit adapter to the internet by wireless or wired LAN, the users can control the Hi-Therma system just using a phone anytime and anywhere, achieving operate all the functions through the app.





- ◆ Stylish appearance
- ◆ Compact body
- ◆ Supporting OTA update



Simple and convenient operation

- ◆ On/Off
- ◆ The temp. setting of rooms, domestic hot water and water cycles
- ◆ Energy management
- ◆ Online repair report
- ◆ 14 languages available
- ◆ Multiple scenes setting



Specifications

Model	Power Supply	Max. Current	Power Input	Dimension	Net Weight
HCCS-H64H2C1M#01	DC 12V	1A	2.4W	91 × 117 × 31mm	0.14kg



Energy management

Hi-Mit provides intelligent energy management, which supporting daily, weekly and monthly electricity data viewing, and energy saving mode setting accordingly. It greatly facilitates the energy management.



Easy Installation and Maintenance



Flexible Refrigerant Piping Design

Long piping length enables flexible design and easy installation.



Max. piping length L: 45(50*)m Max. height difference H: 20/30*2m

*1 When the piping length is 50m, the ambient temperature of the outdoor unit shall be $\geq 10^{\circ}\text{C}$, and the refrigerant charge of the unit shall be less than the max. refrigerant charge allowed by the unit.

*2 When the outdoor unit is higher than the indoor unit, the max. height difference is 30m, otherwise is 20m.

Convenient Maintenance for the Indoor Unit

The position of the components in indoor unit has been fully optimized, and the electrical box can be rotated 88° , which facilitates the maintenance of the parts behind the electrical box, and greatly simplifies the maintenance. Besides, there is a hook on the outer sheet metal of the electrical box, and the controller can be conveniently hung during on-site maintenance.



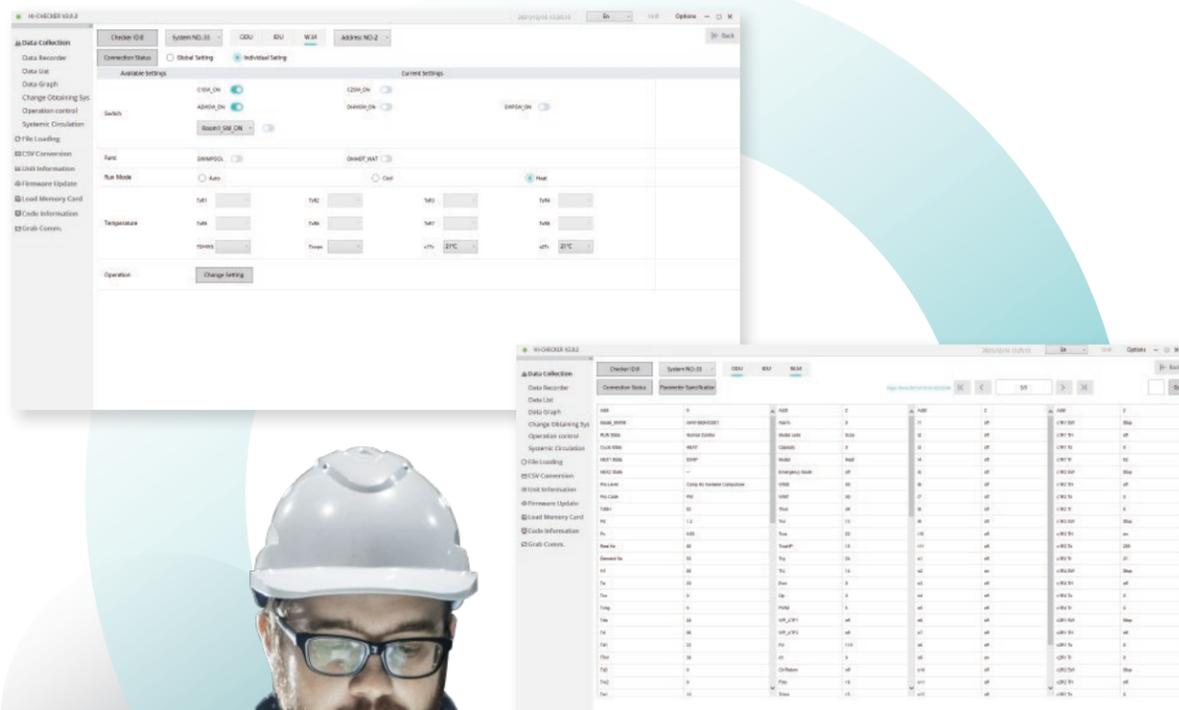
Hi-Checker

Intelligent service tool, improve your service

Hi-Checker is a plug and play service tool, with which service engineers can access the system and monitor operation status or data, very convenient for system communication and maintenance. Besides, it features cloud-based management, easy to access operation status remotely.



Different water cycles in multiple rooms control



Up to 130 parameters of the water system can be displayed intuitively.



Easy to use

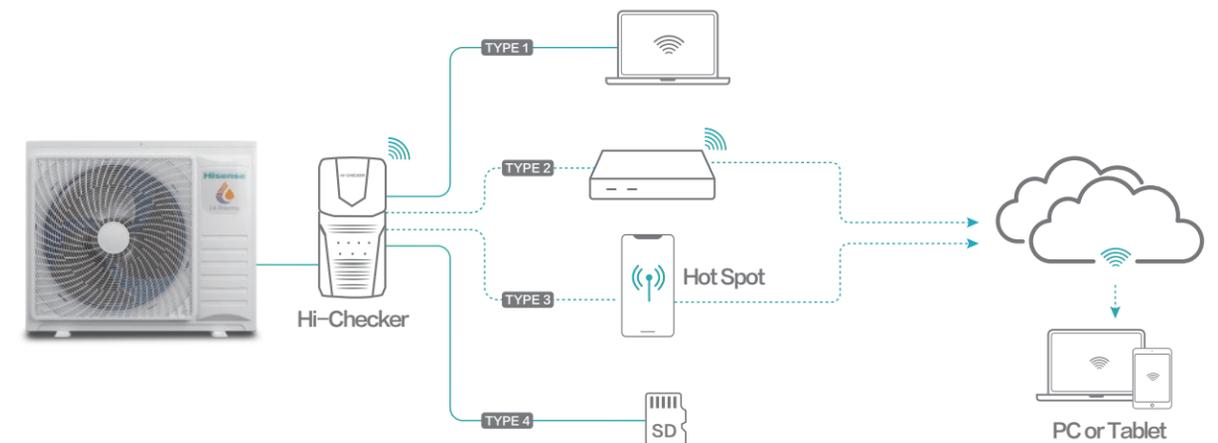
- ◆ Compact size which allows high portability and space saving.
- ◆ Capable to slot in a 32G memory card for data collection and storage. Also the memory card and card reader are standard with Hi-Checker.
- ◆ Multiple choices of power supply types. It can be powered by the standard adapter (DC 5V), computers or power banks.
- ◆ Support OTA update, ensuring the software is always up to date.



Easy to access

4 ways to access the operation data

- ◆ Conventional connection type. The simplest and reliable way by just connecting the Hi-Checker to your computer directly through USB.
- ◆ Internet connection type. Be connected to a stable Wi-Fi signal to achieve operation data and status monitoring anytime and anywhere.
- ◆ Hotspot connection type. Be connected to a temporary hotspot signal from the smartphone, allowing the Hi-Checker to remotely monitor the operation data when there is no stable Wi-Fi signal on site.
- ◆ SD card storage type. Hi-Checker equipped with SD card can be connected to the air conditioning system all the time, so that all the operation data can be stored in the card for later analysis.



Specifications

Model	Size (L × W × H) mm	Net Weight (g)	Power Supply
HCCS-H64H2C2M	138 × 68 × 28	130	5V=500mA

Split

Hi-Therma Split unit is an air to water heat pump system that indoor unit and outdoor unit are separated. The indoor unit including plate heat exchanger, expansion tank, water pump ect. is located in the room, which can avoid water freezing problems.

High Efficiency and Excellent Performance



User Convenience



High Intelligence



Easy Installation and Maintenance



Outdoor Unit

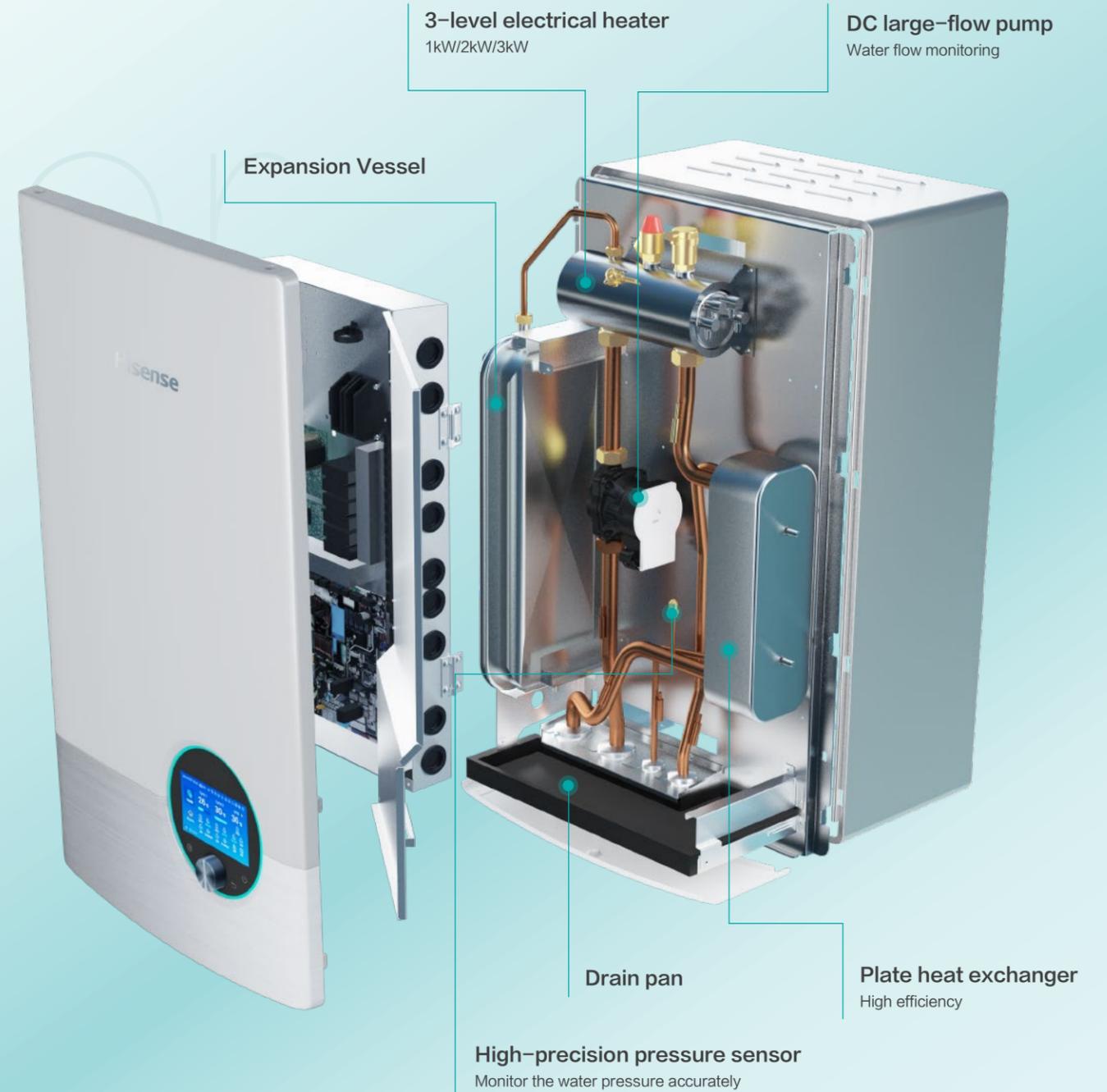


Indoor Unit

Indoor Unit

Indoor Unit

- Stylish appearance
- Compact design
- Integrated panel
- Intuitive control interface
- Easy to hang to the wall





041-K021-01/02



Outdoor Unit Specification

Dimensions

Model				AHW-044HCDS1	AHW-060HCDS1	AHW-080HCDS1	
Power Supply				AC 1Φ, 220-240V/50Hz			
Heating Operation	OAT (DB/WB) 7/6°C	IWT/OWT 30/35°C	Capacity(Min./Nom./Max.)	1.85 / 4.40 / 7.00	1.95 / 6.00 / 8.90	2.10 / 8.00 / 11.0	
			COP (Nom.)	5.10	5.00	4.90	
		IWT/OWT 47/55°C	Capacity (Nom./Max.)	4.40 / 6.00	6.00 / 7.50	8.00 / 9.00	
	OAT (DB/WB) -7/-8°C		COP (Nom.)	3.00	3.05	2.80	
		IWT/OWT 30/35°C	Capacity (Nom./Max.)	4.40 / 5.00	5.30 / 5.90	5.80 / 7.30	
		IWT/OWT 47/55°C	COP (Nom.)	3.26	3.16	3.14	
Cooling Operation	OAT (DB/WB) 35/-°C	IWT/OWT 12/7°C	Nominal Capacity	4.40	5.00	6.00	
			EER	3.90	3.70	3.60	
		IWT/OWT 23/18°C	Nominal Capacity	5.60	6.00	7.00	
	Space Heating	Water Outlet 35°C		EER	5.60	5.60	5.10
				SCOP	5.00	4.93	4.92
				Seasonal Space Heating Efficiency(ηs)	197	194	194
Water Outlet 55°C		Energy Rating	A+++	A+++	A+++		
		SCOP	3.23	3.33	3.42		
		Seasonal Space Heating Efficiency(ηs)	126	130	134		
Sound Pressure*1	Normal Mode (Heating/Cooling)		Energy Rating	A++	A++	A++	
			SCOP	47/47	48/47	50/47	
			Low Noise Mode (Heating/Cooling)	39/39	42/42	43/43	
Sound Power	Normal Mode (Heating/Cooling)		dB(A)	35/35	38/38	39/39	
			dB(A)	61/61	62/61	64/61	
Fan	Condenser Fan Quantity		—	1	1	1	
			Air Flow Rate	m³/h	2700	2700	2700
Max. Running Current			A	9.8	12	16.8	
Recommended Fuse			A	16	16	20	
Outer Dimensions	H × W × D		mm	750 × 900 × 340	750 × 900 × 340	750 × 900 × 340	
Packing Dimensions	H × W × D		mm	807 × 1022 × 445	807 × 1022 × 445	807 × 1022 × 445	
Net Weight			kg	49.5	49.5	50.5	
Gross Weight			kg	53.5	53.5	54.5	
Refrigerating Installation	Refrigeration Charge	Type	—	R32			
		Before Shipment	kg	1.23	1.23	1.26	
	Piping	Gas Pipe	mm	φ12.7	φ12.7	φ15.88	
			in.	1/2	1/2	5/8	
		Liquid Pipe*2	mm	φ6.35 (φ9.53)	φ6.35 (φ9.53)	φ6.35 (φ9.53)	
			in.	1/4 (3/8)	1/4 (3/8)	1/4 (3/8)	
	Min. Piping Length		m	3			
	Max. Chargeless Piping Length		m	10			
Max. Piping Length		m	40	40	45 (50*3)		
Height difference between ODU and IDU	ODU is Higher	m	30	30	30		
	IDU is Higher	m	20	20	20		
Operation Range	Heating	Outdoor Ambient Temperature	°C(DB)	-25~35			
		Outlet Water Temperature	°C	15~60			
	DHW	Outdoor Ambient Temperature	°C(DB)	-25~40°C			
		Outlet Water Temperature	°C	30~55(75*4)			
	Cooling	Outdoor Ambient Temperature	°C(DB)	5~46			
		Tank Water Temperature	°C	5~22			

Note:

*1: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.

*2:The refrigerant gas and liquid piping size are different between outdoor and indoor unit, so refrigerant pipe adapters are required. Please refer to the installation manual for detailed information.

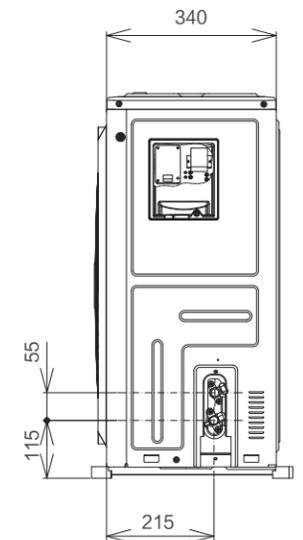
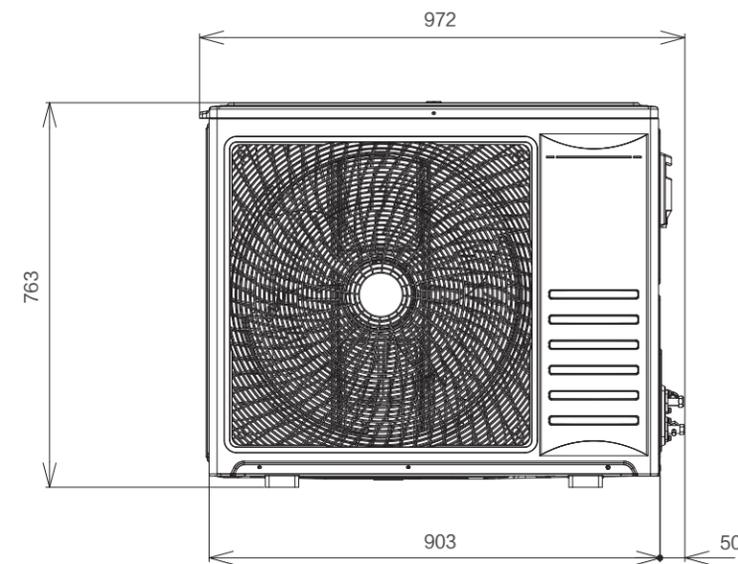
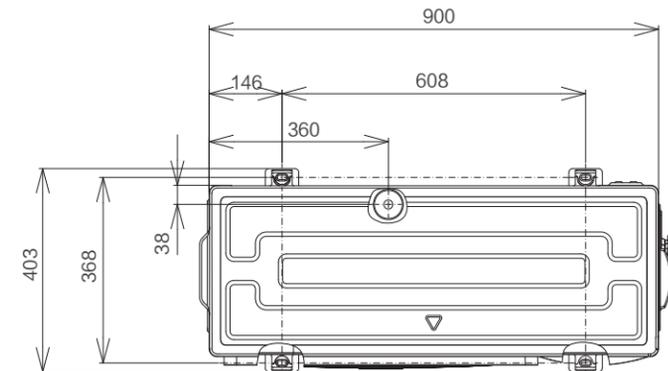
*3:The ambient temperature of the outdoor unit shall be ≥ 10°C, and the refrigerant charge of the unit shall be less than the maximum refrigerant charge allowed by the unit.

*4:When there is a DHW electric heater mounted in the DHW tank, the setting temperature can reach 75°C.

The nominal heating and cooling capacities are based on the EN 14511 standard: Piping length 7.5 meters; Piping lift 0 meters.

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

Unit: mm





Indoor Unit Specification

Dimensions

Model		AHM-044HCDSAA	AHM-060HCDSAA	AHM-080HCDSAA	
Power Supply	—	AC 1Φ, 220~240V/50Hz			
Nominal Water Flow	IWT: 30°C / OWT: 35°C ΔT: 5°C	m³/h	0.77	1.03	1.38
Min. Water Flow		m³/h	0.50	0.60	0.60
Pump Available Pressure		kPa	62	47	32
A Class Pump	Number of speeds	—	Various speed		
	Max. Input Power	W	50	50	50
Sound Pressure		dB(A)	28	28	28
Sound Power		dB(A)	42	42	42
Max. Running Current		A	16(31*1)		
Recommended Fuse		A	20(40*1)		
Outer Dimensions with connections	Height	mm	890 × 520 × 419	890 × 520 × 419	890 × 520 × 419
Packing Dimensions	Height	mm	419 × 1160 × 650	419 × 1160 × 650	419 × 1160 × 650
Net Weight		kg	43.5	43.5	44.5
Gross Weight		kg	48.5	48.5	49.5
Refrigerating Installation	Connection Type	—	Flare nut connection		
	Gas Pipe	mm	Φ 12.7	Φ 12.7	Φ 15.88
		in.	1/4	1/4	5/8
	Liquid Pipe*2	mm	Φ 6.35 (Φ 9.53)	Φ 6.35 (Φ 9.53)	Φ 6.35 (Φ 9.53)
in.		1/4 (3/8)	1/4 (3/8)	1/4 (3/8)	
Water Pipes Connection	Connection type	—	Screwed connection		
	Shutdown valves	mm (in.)	G 1" (male) – G 1" (male)		
	Inlet pipe diameter	mm (in.)	G 1" (female)		
	Outlet pipe diameter	mm (in.)	G 1" (female)		

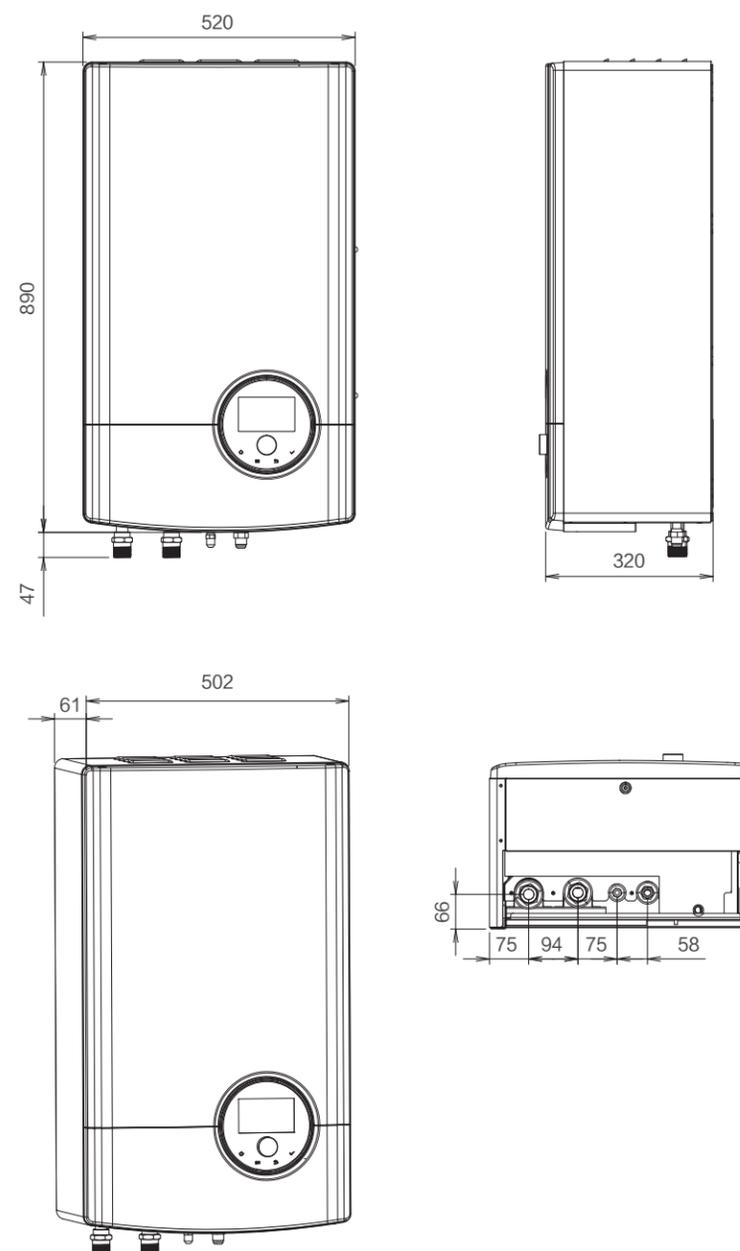
Note:

*1: The value with * is the data when electric heater is working.

*2: The refrigerant gas and liquid piping size are different between outdoor and indoor unit, so refrigerant pipe adapters are required.

Please refer to the installation manual for detailed information.

Unit: mm



Monobloc

Hi-Therma Monobloc unit is an air to water heat pump system that indoor unit and outdoor unit are combined as one module, which ensures all functions are achieved with a single outdoor unit. Therefore, there is no need for refrigerant piping work since Monobloc unit located outside is connected only to water piping. Further, hydronic components such as plate heat exchanger, expansion tank and water pump are included in the package.

High Efficiency and Excellent Performance



User Convenience



High Intelligence



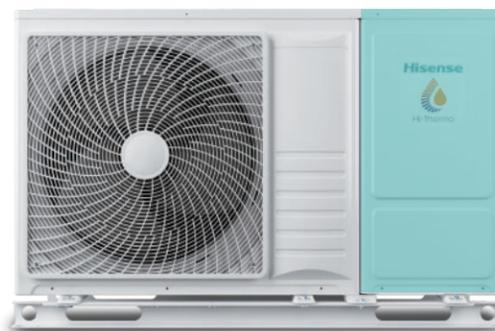
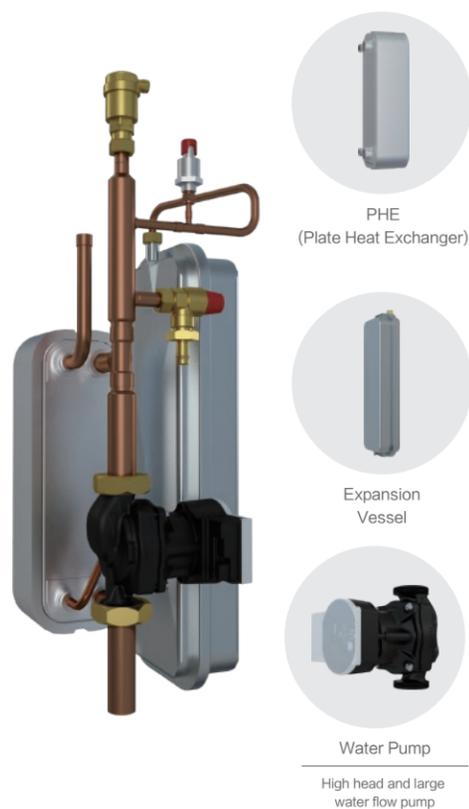
Easy Installation and Maintenance



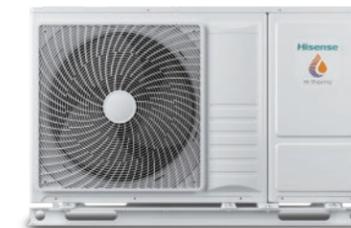
Simplified Installation

Hi-Therma Monobloc unit 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.

Water side items included in the Monobloc



Outdoor Unit Specification



Model					AHZ-044HCDS1	AHZ-080HCDS1	
Power Supply					AC 1 Φ, 220-240V/50Hz		
Heating Operation	OAT (DB/WB) 7/6°C	IWT/OWT 30/35°C	Capacity (Min./Nom./Max.)	kW	1.85 / 4.40 / 7.00	2.10 / 8.00 / 11.0	
			COP (Nom.)	-	5.10	4.90	
		IWT/OWT 47/55°C	Capacity (Nom./Max.)	kW	4.40 / 6.00	8.00 / 9.00	
	OAT (DB/WB) -7/-8°C	IWT/OWT 30/35°C	COP (Nom.)	-	3.00	2.80	
			Capacity (Nom./Max.)	kW	4.40 / 5.00	5.80 / 7.30	
		IWT/OWT 47/55°C	COP (Nom.)	-	3.26	3.14	
Cooling Operation	OAT (DB/WB) 35/-°C	IWT/OWT 12/7°C	Nominal Capacity	kW	4.40	6.50	
			EER	-	4.00	3.35	
		IWT/OWT 23/18°C	Nominal Capacity	kW	5.60	7.00	
		EER	-	5.60	5.10		
	Space Heating	Water Outlet 35°C		SCOP	-	5.17	5.00
				Seasonal Space Heating Efficiency(ηs)	%	204	197
Water Outlet 55°C			SCOP	-	3.47	3.50	
			Seasonal Space Heating Efficiency(ηs)	%	136	137	
Sound Pressure*1	Normal Mode (Heating/Cooling)		dB(A)	47/47	50/47		
	Low Noise Mode (Heating/Cooling)		dB(A)	40/40	43/43		
	Night Shift Mode (Heating/Cooling)		dB(A)	36/36	39/39		
Sound Power	Normal Mode (Heating/Cooling)		dB(A)	61/61	64/61		
Fan	Condenser Fan Quantity		-	1	1		
	Air Flow Rate		m³/h	2700	2700		
Max. Running Current			A	10.53	17.53		
Recommended Fuse			A	16	20		
Outer Dimensions	H × W × D		mm	815 × 1270 × 340	815 × 1270 × 340		
Packing Dimensions	H × W × D		mm	890 × 1440 × 440	890 × 1440 × 440		
Net Weight			kg	88	88		
Gross Weight			kg	102	102		
Refrigerating Installation	Refrigeration Charge	Type		-	R32		
		Before Shipment		kg	1.17	1.21	
Operation Range	Heating	Outdoor Ambient Temperature	°C(DB)	-25-35			
		Outlet Water Temperature	°C	15-60			
	DHW	Outdoor Ambient Temperature	°C(DB)	-25-40			
		Outlet Water Temperature	°C	30-55(75*)			
	Cooling	Outdoor Ambient Temperature	°C(DB)	5-46			
		Tank Water Temperature	°C	5-22			
Nominal Water Flow	IWT: 30°C / OWT: 35°C ΔT: 5°C		m³/h	0.77	1.38		
Min. Water Flow			m³/h	0.5	0.6		
Pump Available Pressure			kPa	84	74		
A Class Pump	Number of Speeds		-	Various speed			
	Max. Input Power		W	87	87		
Water Pipes Connection	Connection Type		-	Screwed connection			
	Shutdown Valves		mm (in.)	G 1" (male) - G 1" (male)			
	Inlet Pipe Diameter		mm (in.)	G 1" (female)			
	Outlet Pipe Diameter		mm (in.)	G 1" (female)			

Note:

*1: 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.

*2: When there is a DHW electric heater mounted in the DHW tank, the setting temperature can reach 75°C.

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

The nominal heating and cooling capacities are based on the EN 14511 standard: Piping length 7.5 meters; Piping lift 0 meters.

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

Dimensions

Unit: mm

