

## Accessories

Accessories	Model	Function	Compatibility
Water temperature sensor	HTS-E1000A1	Water temperature sensor for pipeline, tank and hydraulic components.	Hi-Therma Series
3-way valve	HESE-3W25A	Valve to divert different water flow for different operation	Hi-Therma Series
Hi-Mit II adapter	HCCS-H64H2C1M#01	Hi-Mit II smart APP solution.	Hi-Therma Series
Thermal tank	HDHWT-200L30HE HDHWT-300L30HE	DHW Tank	Hi-Therma Series
Indoor ambient temperature sensor	HCT-S01E	Wall mounted room temperature sensor, with communication to heat pump system.	Hi-Therma Series
Wired remote controller	HSXE-VC04	Room thermostat for room temperature control, with communication to heat pump system.	Hi-Therma Series
Second outdoor ambient temperature sensor	HC-T-01M	Detect Outdoor ambient temperature with the second sensor	Hi-Therma Series
Electronic anode	HOPT-EAT01	Protect the inner tank of the water heater, enhance its corrosion resistance, and prolong its service life.	Hi-Therma Integra
Colorful touch controller	HSXM-FE01	Touch controller for room temperature control and mode adjustment with communication to heat pump system.	Hi-Therma Integra & Split
Auxiliary electric heater	DRE-300WG DRE-600WG DRE-S600WG	Auxiliary electric heating for use in emergency situations when the heat pump malfunctions	Hi-Therma Monobloc

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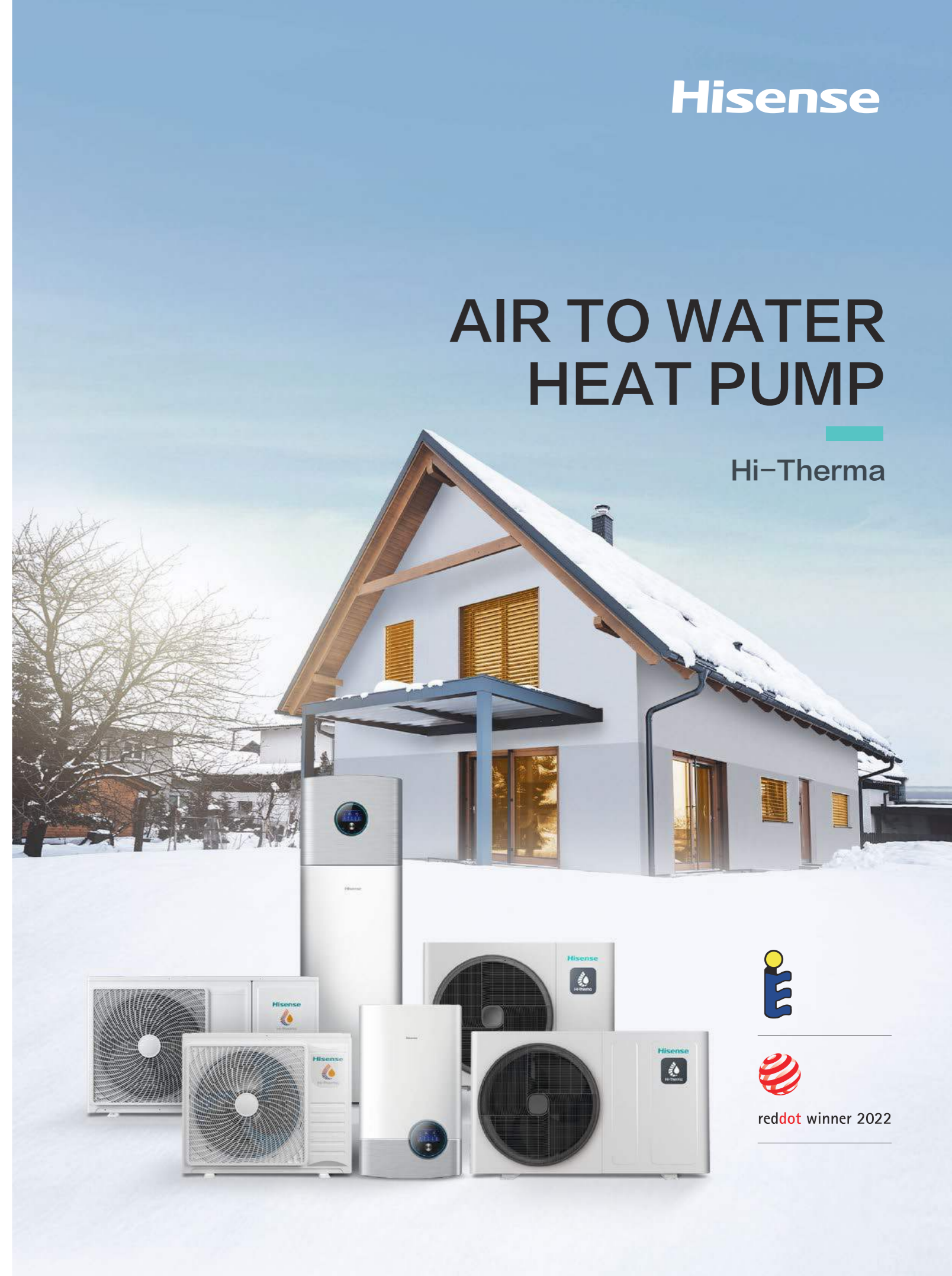


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# AIR TO WATER HEAT PUMP

Hi-Therma



reddot winner 2022



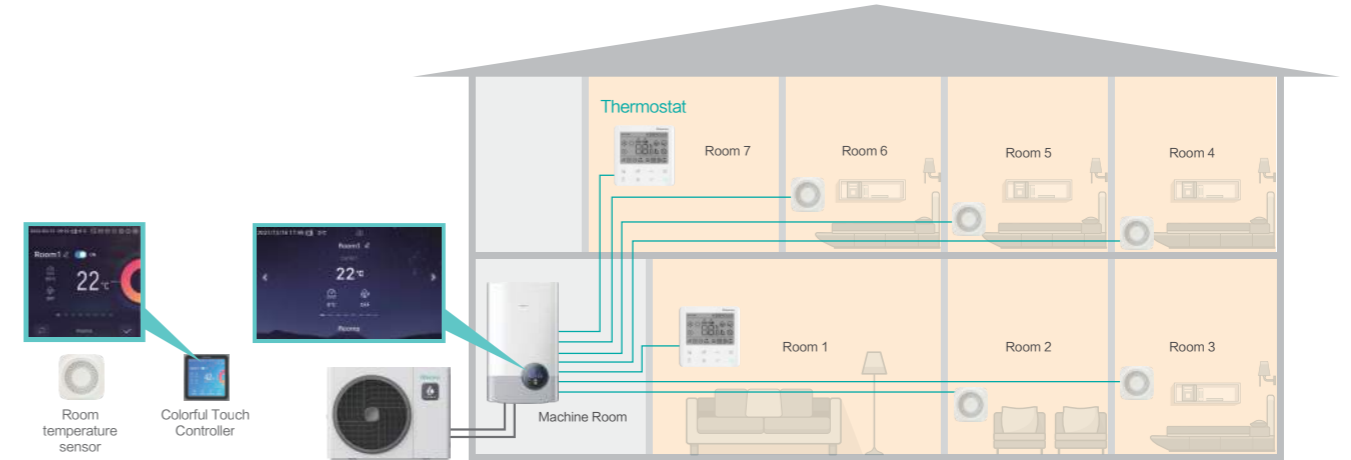
reddot winner 2022

The Hi-Therma Series offers a stylish heating and cooling solution that was awarded the 2022 Reddot Award for its minimalist yet sophisticated design. It has clean lines and a classic white and gray color scheme that complements any home decor style, achieving the perfect fusion of form and function.



## Up to 7 Rooms with Independent Temperature Control

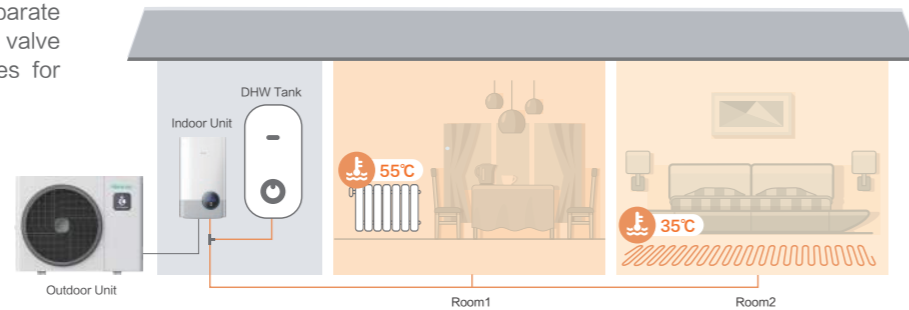
In one Hi-Therma system, the temperature of up to 7 rooms can be independently controlled through installing temperature sensors or room-thermostats in the rooms, satisfying the diverse needs of users.



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

## Two Separate Temperature 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.



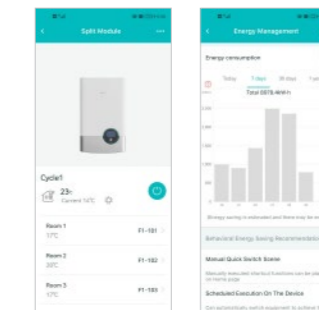
## High Efficiency A+++

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.



## Smart App Control

Through the smart app, users can access the Hi-Therma system easily to control the room temperature at anytime and anywhere.



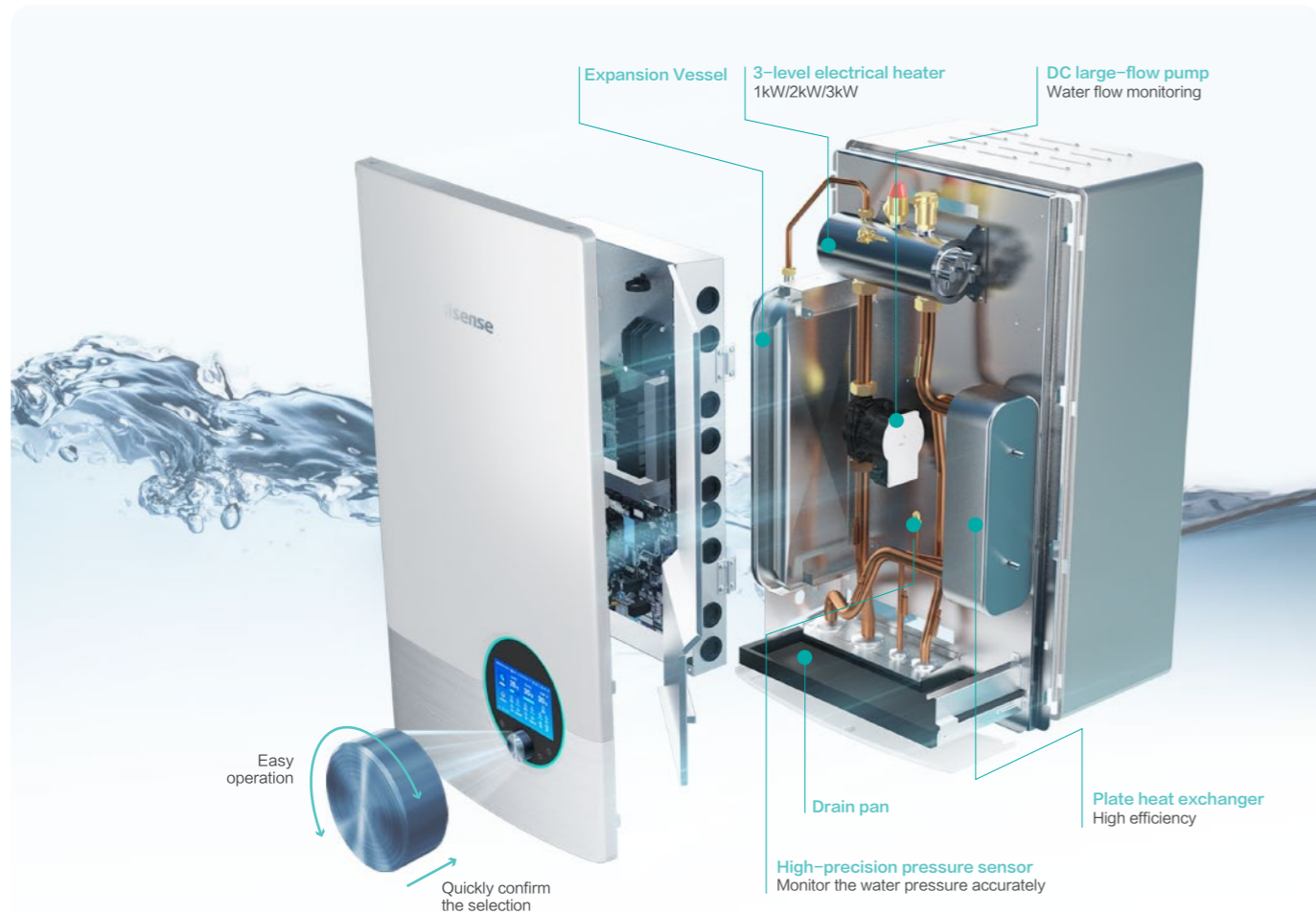
Hi-Mit II Adaptor

## Compact Size and Easy Transportation

Compact and measuring only 84cm in height, the Hi-Therma Monobloc is perfect for easy placement on residential house walls. Its single fan design allows for effortless transportation in both small vans and large trucks. This unit ensures uninterrupted sunlight through windows and offers convenience and efficiency.



Up to 20%  
space



### Colorful Touch Controller

Access and customize your device's important settings with ease through the colorful touch controller, enabling precise temperature and mode adjustments with just a few taps.

\*Note: Standard for Monobloc and optional for split



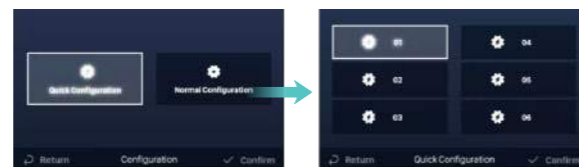
#### HSXM-FE01

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

#### One-click Configuration

Configure your device with ease using the new "One-click Configuration" feature that allows for quick setup in just 3 simple steps, with the ability to preset up to 6 scenarios for ultimate convenience and simplicity. \*

\*Note: Only supports pre-stored maximum of 6 scenarios.



### 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.



#### 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.

#### 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.

## Plate Heat Efficiency and Anti-Freeze

Hi-therma Integra is equipped with advanced major components including a high-efficiency plate heat exchanger, DC large-flow pump, 3-level electric heater, and large volume water tank, ensuring the in-house installation is easy and free of water freezing issues.



### Premium Stainless Steel Water Tank

Featuring a DUPLEX 2205 material that delivers high-quality water with minimal maintenance costs, the water tank also comes standard with electric heating and sterilization functions that can be controlled separately. For areas with poor water quality, the optional electronic anode provides an extra layer of protection for enhancing corrosion resistance and extending the tank's lifespan.

## Eco-friendly Refrigerant R32

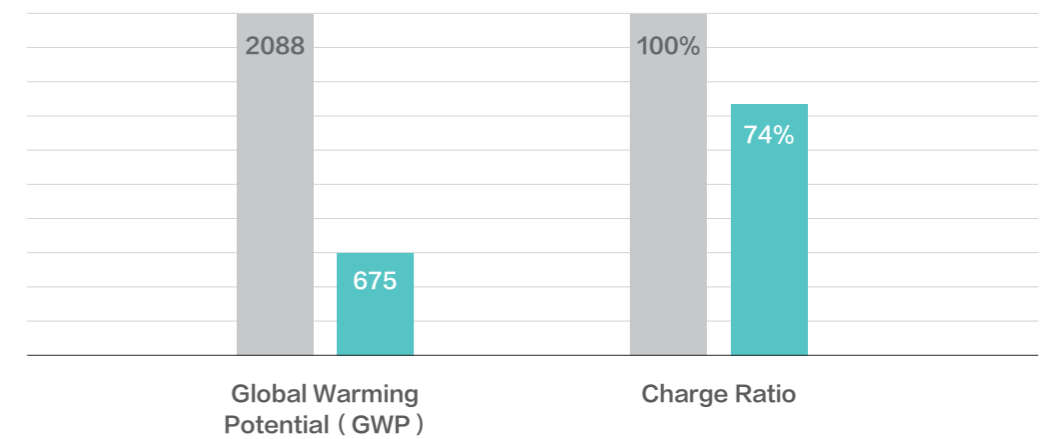
R32 refrigerant contributes to meeting the F-gas regulation targets as described in EU regulation 517/2014. Hisense Hi-Therma heat pump system adopts R32 refrigerant, which is a perfect solution for attaining the new European CO2 emission targets.

### 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

R32

R410A R32



## Save Space

Integration of the water tank and control components together can save you up to 30% space in your home or facility, giving you more opportunities and possibilities to use your space for other things.

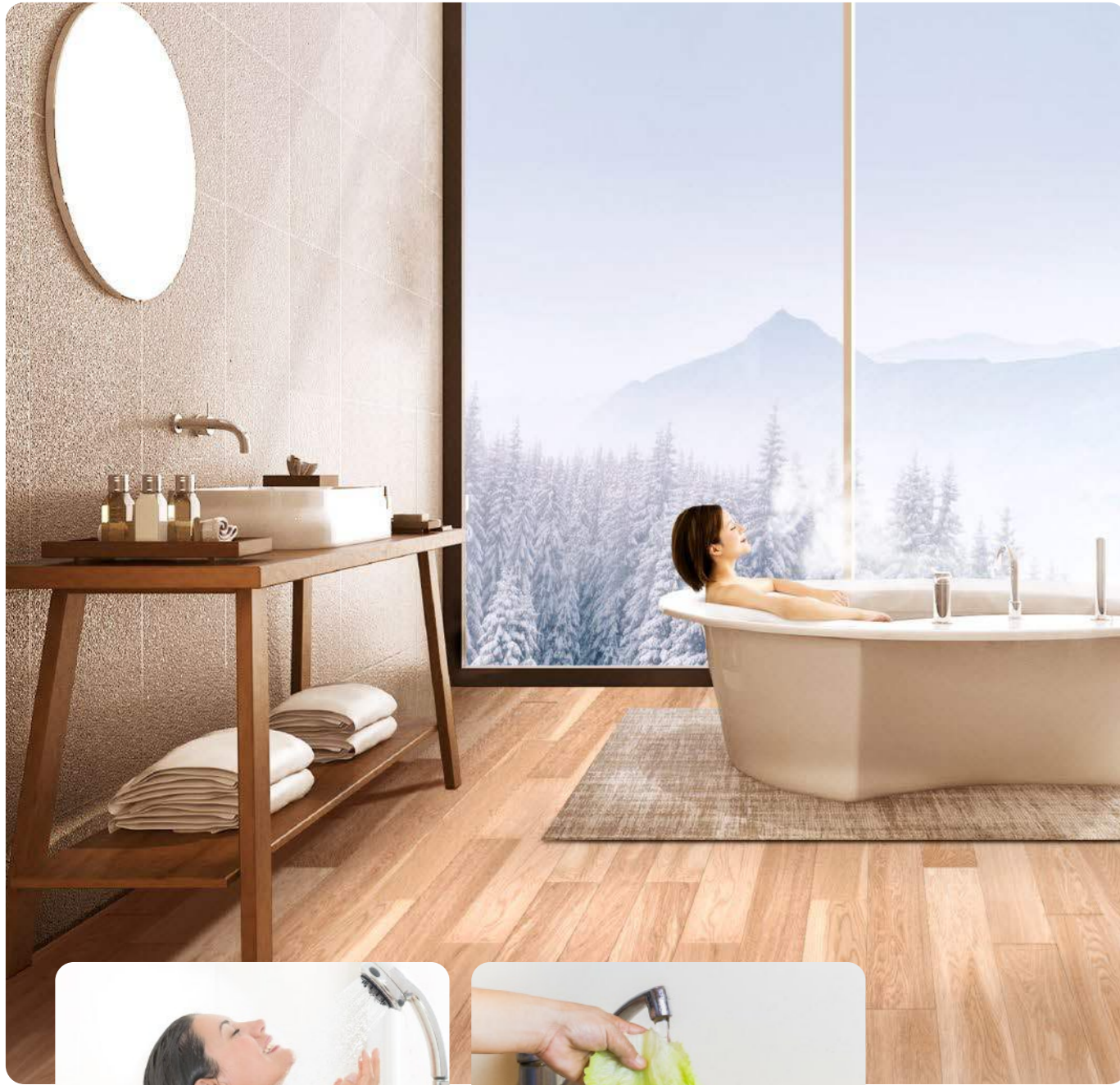


Note: \*Compared to Hi-Therma Split + 230L DHW Tank.

## Easy Transportation

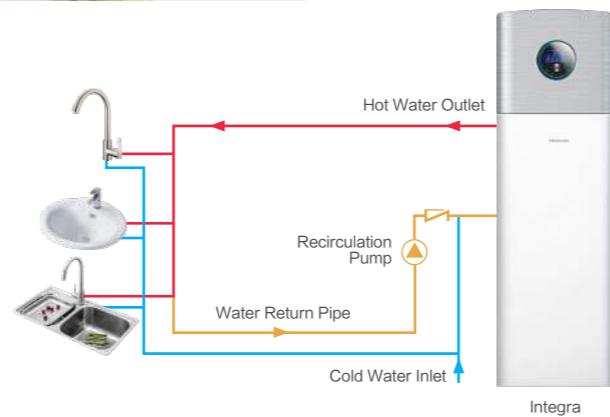
Especially designed with a one-piece-fits-all size, transporting or moving it with any cart or trolley becomes easy and convenient. Place it wherever you like without a hassle.





### Zero Cold Water

With a circulating pump equipped in pipeline, Integra can cycle cold water into the heater, creating a constant flow of heat within the pipeline, for continuous hot water. No buffer time required. Your entire house or facility will always have set-temperature hot water for instant use.



#### High Efficiency and Excellent Performance

- R32 Eco-friendly refrigerant
- A+++ energy efficiency
- Interlock with 3rd party heat source
- 25°C stable operation
- 75°C domestic hot water
- Max 65°C outlet water temperature
- Smart grid interlock and PV enabled
- High-efficiency DC pump

#### User Convenience

- Reddot award design
- Two separate temp. cycles
- Up to 7 rooms with independent temp. control
- Low noise operation
- Night shift mode operation
- Centralized control and individual control
- Screed drying
- Swimming pool heating
- Visual display of energy consumption

#### High Intelligence

- Smart App control
- Intuitive interface of controllers
- Smart hint

#### Easy Installation and Maintenance

- Hi-Checker
- Water pressure and water flow monitoring
- Long piping design

### Product Lineup Overview

Series	Max Temp. of Outlet Water	Power Supply	Capacity
R32 Split	60°C	AC1φ, 220-240V/50Hz	4.4 kW
			6.0 kW
			8.0 kW
R32 Split	65°C	AC1φ, 220-240V/50Hz (AC 3φ, 380-415V/50Hz)	10.0 kW
			12.0 kW
			14.0 kW
			16.0 kW
R32 Monobloc	60°C	AC1φ, 220-240V/50Hz	4.4 kW
			8.0 kW
R32 Monobloc	65°C	AC1φ, 220-240V/50Hz (AC 3φ, 380-415V/50Hz)	10.0 kW
			12.0 kW
			14.0 kW
			16.0 kW
R32 Integra	60°C	AC1φ, 220-240V/50Hz	4.4 kW
			6.0 kW
R32 Integra	65°C	AC1φ, 220-240V/50Hz (AC 3φ, 380-415V/50Hz)	8.0 kW
			10.0 kW
			12.0 kW
R32 Integra	65°C	AC1φ, 220-240V/50Hz (AC 3φ, 380-415V/50Hz)	14.0 kW
			16.0 kW
			16.0 kW



Specification (4~8kW)



Model				AHZ-044HCDS1	AHZ-080HCDS1
Power Supply				220~240V ~50Hz	
Heating Operation*1	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		COP (Nom.)	3.00	2.80
		IWT/OWT 30 / 35°C	Capacity (Nom./Max.) kW	4.40 / 5.00	5.80 / 7.30
		IWT/OWT 47 / 55°C	Capacity (Nom./Max.) kW	4.00 / 4.20	5.00 / 6.40
Cooling Operation*1	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
	Water Outlet 35°C		EER	5.60	5.10
			SCOP	5.17	5.00
			Seasonal Heating Efficiency (ηs)	204	197
Water Outlet 55°C		Energy Rating	A+++	A+++	
		SCOP	3.47	3.50	
		Seasonal Heating Efficiency (ηs)	136	137	
		Energy Rating	A++	A++	
Sound Pressure*3	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	Height × Width × Depth		mm	815 × 1270 × 340	815 × 1270 × 340
Packing Dimensions	Height × Width × Depth		mm	890 × 1400 × 440	890 × 1400 × 440
Net Weight			kg	88	88
Gross Weight			kg	104	105
Refrigerant System	Compressor	Type		Rotary	
	Refrigerant 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	
		Tank Water Temperature	°C	30~55(75*4)	
	Cooling	Outdoor Ambient Temperature	°C (DB)	5~46	
		Outlet 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 Rate		m³/h	0.50	0.60
DC Water Pump	Max. Lift Pressure		m	9	
	Max. Water Flow Rate		m³/h	4.5	
	Speed			Inverter	
	Max. Power Input		W	87	
Water Electric Heater			kW	External (Optional)	
Safety Valve			bar	3	
Shut-off Valve				2 pcs Supplied	
Water Installation	Connection Type			Screwed Connection	
	Shutdown Valves		in.	G 1" - G 1" (female)	
	Inlet Pipe Diameter		in.	G 1" (female)	
	Outlet Pipe Diameter		in.	G 1" (female)	

NOTES:

- \*1: Heating/Cooling nominal performances at full load conditions according to EN 14511. Pipe length 7.5 m; height difference ODU/IDU 0 m; heating performance are integrated (included defrost cycles).
  - \*2: According to EN14825, Climate Zone AVERAGE. Energy efficiency scale from A+++ to D.
  - \*3: 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.
  - \*4: 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

Specification (10~16kW)



Model				100(3.5HP)	120(4.0HP)	140(5.0HP)	160(6.0HP)	100(3.5HP)	120(4.0HP)	140(5.0HP)	160(6.0HP)		
Unit Type				AHZ-100HCDS1	AHZ-120HCDS1	AHZ-140HCDS1	AHZ-160HCDS1	AHZ-100HEDS1	AHZ-120HEDS1	AHZ-140HEDS1	AHZ-160HEDS1		
Power Supply				1N, 220-240V, 50Hz				3N, 380-415V, 50Hz					
	OAT (DB/WB)	IWT / OWT		Parameters				Parameters					
Nominal Heating Operation*1	7 / 6°C	30 / 35°C	Capacity (Min./Nom./Max.)	kW	3.3/10.0/12.5	3.8/12.0/14.5	4.32/14.0/16.0	4.86/16.0/18.0	3.3/10.0/12.5	3.8/12.0/14.5	4.32/14.0/16.0	4.86/16.0/18.0	
			COP (Nom.)	-	5.10	4.95	4.80	4.60	5.10	4.95	4.80	4.60	
		47 / 55°C	Capacity (Nom./Max.)	kW	9.0/11.1	11.2/13.1	13.0/15.0	15.0/17.0	9.0/11.1	11.2/13.1	13.0/15.0	15.0/17.0	
	-7 / -8°C	30 / 35°C		COP (Nom.)	-	3.10	3.05	3.05	2.95	3.10	3.05	3.05	2.95
			Capacity (Nom./Max.)	kW	9.5/9.5	10.8/10.8	13.5/13.5	14.0/14.0	9.5/9.5	10.8/10.8	13.5/13.5	14.0/14.0	
		47 / 55°C	Capacity (Nom./Max.)	kW	8.0/8.0	8.5/8.5	10.0/10.0	11.0/11.0	8.0/8.0	8.5/8.5	10.0/10.0	11.0/11.0	
Nominal Cooling Operation*1	35 / --°C	12 / 7°C		COP (Nom.)	-	3.10	2.85	2.80	3.10	3.00	2.85	2.80	
			Nominal Capacity	kW	8.5	10	11	13	8.5	10	11	13	
		23 / 18°C	Nominal Capacity	kW	9	11	14	15.5	9	11	14	15.5	
	Water Outlet 35°C		EER	-	3.15	3.00	2.90	2.85	3.15	3.00	2.90	2.85	
			SCOP	-	4.9	4.87	4.59	4.47	4.9	4.87	4.59	4.47	
			Seasonal Heating Efficiency (ηs)	%	193	192	181	176	193	192	181	176	
Water Outlet 55°C		Energy Rating	-	A+++	A+++	A+++	A+++	A+++	A+++	A+++	A+++		
		SCOP	-	3.62	3.47	3.37	3.35	3.62	3.47	3.37	3.35		
		Seasonal Heating Efficiency (ηs)	%	142	136	132	131	142	136	132	131		
		Energy Rating	-	A++	A++	A++	A++	A++	A++	A++	A++		
Sound Pressure*3	Normal Mode (Heating/Cooling)		dB(A)	47/47	49/49	51/51	53/53	47/47	49/49	51/51	53/53		
	Low Noise Mode (Heating/Cooling)		dB(A)	44/44	46/46	47/47	49/49	44/44	46/46	47/47	49/49		
	Night Shift Mode (Heating/Cooling)		dB(A)	44/44	45/45	45/45	45/45	44/44	45/45	45/45	45/45		
Sound Power	Normal Mode (Heating/Cooling)		dB(A)	62/62	64/64	66/66	67/67	62/62	64/64	66/66	67/67		
Fan	Condenser Fan Quantity			1	1	1	1	1	1	1	1		
	Air Flow Rate		m³/h	3900	3900	4200	4200	3900	3900	4200	4200		
Outer Dimensions	Height × Width × Depth		mm	840 × 1376 × 390				840 × 1376 × 390					
Packing Dimensions	Height × Width × Depth		mm	995 × 1460 × 530				995 × 1460 × 530					
Net Weight			kg	108		123		110.5		125			
Gross Weight			kg	127		142		129		144			
Refrigerant System	Compressor	Type		Rotary									
	Refrigeration Oil	Type		FW68S									
		Charge	L	0.87	0.87	1.25	1.25	0.87	0.87	1.25	1.25		
	Refrigerant Charge	Type		R32									
Before Shipment		kg	1.5	1.5	2.0	2.0	1.5	1.5	2.0	2.0			
Operation Range	Heating	Outdoor Ambient Temperature	°C (DB)	-25~35									
		Outlet Water Temperature	°C	20~65									
	DHW	Outdoor Ambient Temperature	°C (DB)	-25~43									
		Tank water temperature	°C	30~60(75*2)									
	Cooling	Outdoor Ambient Temperature	°C (DB)	5~46									
		Outlet Water Temperature	°C	5~22									
Water Flow Rate	IWT: 30°C / OWT: 35°C ΔT: 5°C		m³/h	1.72	2.06	2.41	2.75	1.72	2.06	2.41	2.75		
DC Water Pump	Max. Lift Pressure		m	12.5									
	Max. Water Flow Rate		m³/h	4									
	Type			Inverter									
	Max. Power Input		W	180									
Safety valve				Yes (3 bar)									
Shut-off valve			in.	1" , DN25									
Water Installation	Connection type			Screwed connection									
	Shutdown valves		mm (in.)	G 1" (female) - G 1" (female)									
	Inlet pipe diameter		mm (in.)	G 1" (male)									
	Outlet pipe diameter		mm (in.)	G 1" (male)									

NOTES:

- \*1: Heating/Cooling nominal performances at full load conditions according to EN 14511. Pipe length 7.5 m; height difference ODU/IDU 0 m; heating performance are integrated (included defrost cycles).
  - \*2: According to EN14825, Climate Zone AVERAGE. Energy efficiency scale from A+++ to D.
  - \*3: 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.
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