

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
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

Hisense

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Specification

Monobloc (4~8kW)



Model				AHZ-044HCDS1	AHZ-080HCDS1
Power Supply				220~240V ~50Hz	
Heating Operation*1	OAT (DBWB) 7/6°C	IWT/OWT 30 / 35°C	Capacity (Min./Nom./Max.) COP (Nom.)	1.85 / 4.40 / 7.00 5.10	2.10 / 8.00 / 11.0 4.90
		IWT/OWT 47 / 55°C	Capacity (Nom./Max.) COP (Nom.)	4.40 / 6.00 3.00	8.00 / 6.00 2.80
			IWT/OWT 30 / 35°C	Capacity (Nom./Max.) COP (Nom.)	4.40 / 5.00 3.26
	OAT (DBWB) -7 / -8°C	IWT/OWT 30 / 35°C	Capacity (Nom./Max.) COP (Nom.)	4.00 / 4.20 1.97	5.00 / 6.40 1.94
		IWT/OWT 47 / 55°C	Nominal Capacity EER	4.40 4.00	6.50 3.35
			IWT/OWT 12 / 7°C	Nominal Capacity EER	5.60 5.60
Cooling Operation*1	OAT (DBWB) 35~°C	IWT/OWT 23 / 18°C	Nominal Capacity EER	4.40 4.00	6.50 3.35
		IWT/OWT 12 / 7°C	Nominal Capacity EER	5.60 5.60	7.00 5.10
			IWT/OWT 23 / 18°C	Nominal Capacity EER	5.60 5.60
	Water Outlet 35°C	SCOP	—	5.17	5.00
		Seasonal Heating Efficiency (ηs)	%	204	197
		Energy Rating	—	A+++	A+++
Water Outlet 55°C	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
	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	Net Weight		kg	88	88
	Gross Weight		kg	104	105
	Refrigerant System		Compressor Type	—	Rotary
Refrigerant Charge	Refrigerant Type		—	R32	
	Before Shipment		kg	1.17	1.21
	Heating	Outdoor Ambient Temperature		°C (DB)	-25~35
Outlet Water Temperature		°C	15~60		
Outdoor Ambient Temperature		°C (DB)	-25~40		
Operation Range	DHW	Tank Water Temperature		°C	30~55(75*)
		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)	
	Inlet 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 an 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

AIR TO WATER
HEAT PUMP

Hisense

Monobloc (10~16kW) Preview



Model	Power Supply	AC 1ϕ, 220~240V/50Hz		—	AHZ-100HCDS1	AHZ-120HCDS1	AHZ-140HCDS1	AHZ-160HCDS1
		AC 3ϕ, 380~415V/50Hz		—	AHZ-100HEDS1	AHZ-120HEDS1	AHZ-140HEDS1	AHZ-160HEDS1
OAT (DBWB)		IWT / OWT	—	Unit	—			
Heating Operation*1	7/6°C	30 / 35 °C	Capacity (Nom)	kW	10	12	14	16
			COP (Nom.)	—	5.1	4.95	4.8	4.6
		47 / 55 °C	Capacity (Nom)	kW	10	12	14	15.5
	-7 / -8°C	30 / 35 °C	Capacity (Nom)	kW	9.50	10.80	13.50	14.00
			COP (Nom.)	—	3.10	3.00	2.85	2.80
		47 / 55 °C	Capacity (Nom)	kW	8	8.5	10	11
Cooling Operation*1	35°C	12 / 7 °C	Capacity (Nom)	kW	8.5	10	11	13
			EER	—	3	2.85	2.85	2.7
		23 / 18 °C	Capacity (Nom)	kW	9	11	14	15.5
	Water outlet 35°C	SCOP		—	4.8	4.7	4.6	4.5
		Seasonal heating efficiency (ηs)		%	188	185	180	177
		Energy rating		—	A+++	A+++	A+++	A+++
Water outlet 55°C	SCOP		—	3.4	3.35	3.3	3.3	
	Seasonal heating efficiency (ηs)		%	133	130	128	127	
	Energy rating		—	A++	A++	A++	A++	
Working range (Space Heating)	Outdoor ambient temperature		°C (DB)	-25~35				
	Outlet water temperature		°C	20~65				
Working range (Space Cooling)	Outdoor ambient temperature		°C (DB)	5~46				
	Outlet water temperature		°C	5~22				
Working range (DHW)	Outdoor ambient temperature		°C (DB)	-25~43				
	Tank water temperature		°C	30~60(75**)				
Sound pressure level		dB(A)	47	50	50	54		
Sound pressure level (low noise mode)		dB(A)	61	63	64	67		
Sound pressure level (night shift mode)		dB(A)	43	46	46	48		
Sound pressure level (night shift mode)		dB(A)	42	42	44	44		
Outer Dimensions	Height		mm	840	840	840	840	
	Width		mm	1376	1376	1376	1376	
	Depth		mm	390	390	390	390	
Space heating pipes connection	Inlet pipe diameter		in.	G 1" (female)				
	Outlet pipe diameter		in.	G 1" (female)				

NOTES:

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AIR TO WATER
HEAT PUMP

Hi-Therma Monobloc



reddot winner 2022



reddot winner 2022

Red Dot Award Casing Design

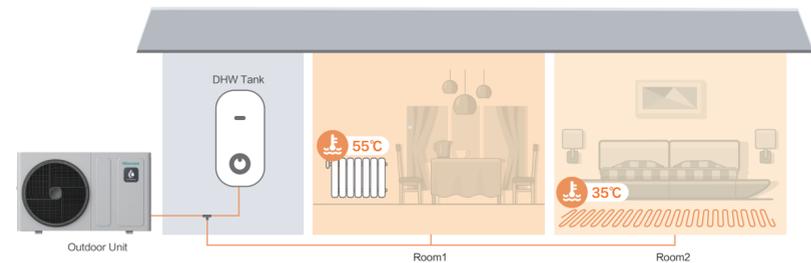
The 2022 Red Dot award-winning outdoor unit is recognised for its exceptional design, featuring a classic grey color and a screwless front panel that maintains its appearance over time, while also preventing unsightly rust stains caused by long-term exposure to various weather conditions. The compact machine size also adapts to a wide variety of space layouts.



Unit: mm

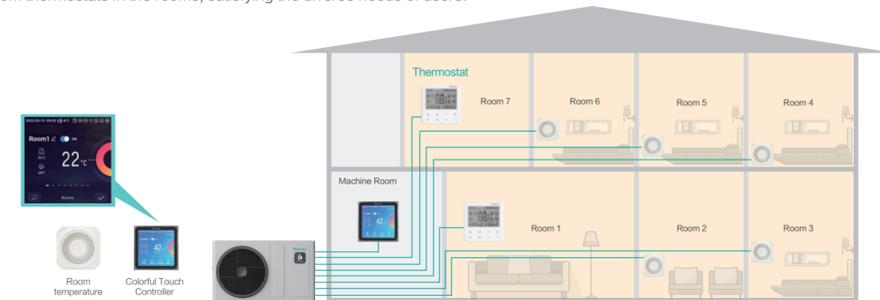
Two Separate Temperature Cycles

Two temperature zones through the separate heating cycles are possible with the mixing valve kit, enabling different water temperatures for underfloor heating and the radiators.



Up to 7 Rooms with Independent Temperature Control

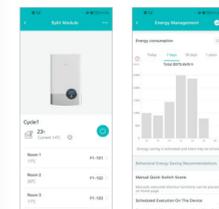
In one Hi-Therma system, the temperature of up to 7 rooms can be independently controlled through installing temperature sensors or room thermostats in the rooms, satisfying the diverse needs of users.



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

Smart App Control

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

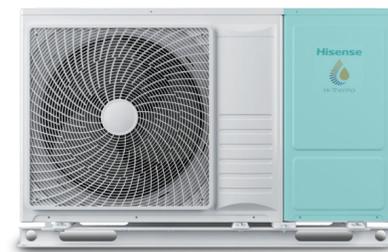


Hi-Mit II Adaptor

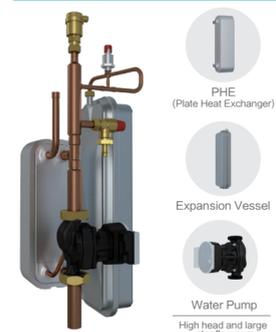


Simplified Installation

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



Colorful Touch Controller*

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



HSXM-FE01

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

Sliding Interface

Quick switching between different interfaces can be easily achieved by sliding the screen left and right.



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.

High Efficiency A+++¹ A+²

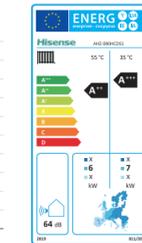
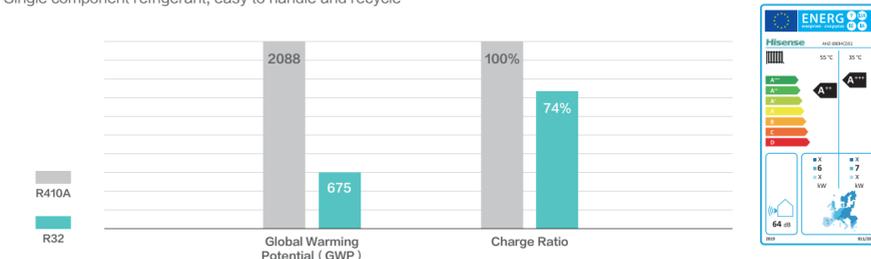
Hi-Therma offers the best and most efficient solution for home heating and hot water supply. It has the top class A+++ energy classification under the low-temperature water condition, and A++ under the mid-temperature water condition, which ensures you make savings on your energy bills, reducing electricity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

Eco-Friendly Refrigerant R32

The R32 Refrigerant meets the F-gas regulation standards described in EU regulation 517/2014. The Hisense Hi-Therma heat pump system adopts and fully utilises the R32 Refrigerant, which is a good solution for achieving the new European CO₂ emission targets.

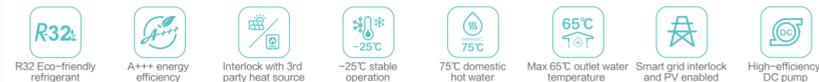
Features

- ◆ 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



Notes: 1.* SCOP up to 5.00 (Average climate / Low temp. application) : A+++ , SCOP up to 3.42 (Average climate / Mid temp. application) : A++
 2. DHW Efficiency η = 135%, profile XL: A+
 2. Followed by (EU) No 811/2013, (EU) No 813/2013, (EU) No 814/2013

High Efficiency and Excellent Performance



User Convenience



High Intelligence



Easy Installation and Maintenance



Product Lineup Overview

Series	Max Temp. of Outlet Water	Power Supply	Capacity
R32	60°C	AC1Φ, 220-240V/50Hz	4.4 kW
			8.0 kW
Hi-Therma R32	65°C	AC1Φ, 220-240V/50Hz (AC 3Φ, 380-415V/50Hz)	10.0 kW
			12.0 kW
			14.0 kW
			16.0 kW