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

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HCAC-LL-ATWUK202305

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Specification

Monobloc (4~8kW)

Model					AHZ-044HCDS1	AHZ-080HCDS1
Power Supply					220~240V ~ 50Hz	
Heating Operation*1	OAT (DB/WB) 7/6℃	IWT/OWT 30 / 35℃	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℃	Capacity (Nom./Max.)	kW	4.40 / 6.00	8.00 / 9.00
			COP (Nom.)	–	3.00	2.80
	OAT (DB/WB) -7 / -8℃	IWT/OWT 30 / 35℃	Capacity (Nom./Max.)	kW	4.40 / 5.00	5.80 / 7.30
			COP (Nom.)	–	3.26	3.14
		IWT/OWT 47 / 55℃	Capacity (Nom./Max.)	kW	4.00 / 4.20	5.00 / 6.40
			COP (Nom.)	–	1.97	1.94
Cooling Operation*1	OAT (DB/WB) 35/-℃	IWT/OWT 12 / 7℃	Nominal Capacity	kW	4.40	6.50
			EER	–	4.00	3.35
		IWT/OWT 23 / 18℃	Nominal Capacity	kW	5.60	7.00
			EER	–	5.60	5.10
Seasonal Performance*2	Water Outlet 35℃	SCOP		–	5.17	5.00
		Seasonal Heating Efficiency (ηs)		%	204	197
		Energy Rating		–	A+++	A+++
	Water Outlet 55℃	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			m/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		℃ (DB)	-25~35	
		Outlet Water Temperature		℃	15~60	
	DHW	Outdoor Ambient Temperature		℃ (DB)	-25~40	
		Tank Water Temperature		℃	30~55(75*4)	
	Cooling	Outdoor Ambient Temperature		℃ (DB)	5~46	
		Outlet Water Temperature		℃	5~22	
Nominal Water Flow	IWT: 30℃ / OWT: 35℃ ΔT: 5℃			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 an DHW electric heater mounted in the DHW tank ,the setting temperature can reach 75℃.
OAT: Outdoor ambient temperature; IWT: Inlet water temperature; OWT: Outlet water temperature

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 (DB/WB)		IWT / OWT	–	Unit	–			
Heating Operation*1	7/6℃	30 / 35 ℃	Capacity (Nom)	kW	10	12	14	16
			COP (Nom.)	—	5.1	4.95	4.8	4.6
		47 / 55 ℃	Capacity (Nom)	kW	10	12	14	15.5
			COP (Nom.)	—	3.1	3.05	3.05	2.95
	-7 / -8℃	30 / 35 ℃	Capacity (Nom)	kW	9.50	10.80	13.50	14.00
			COP (Nom.)	—	3.10	3.00	2.85	2.80
		47 / 55 ℃	Capacity (Nom)	kW	8	8.5	10	11
			COP (Nom.)	—	2.15	2.1	2.05	2
Cooling Operation*1	35℃	12 / 7 ℃	Capacity (Nom)	kW	8.5	10	11	13
			EER	—	3	2.85	2.85	2.7
		23 / 18 ℃	Capacity (Nom)	kW	9	11	14	15.5
			EER	—	4.5	4.1	4.2	3.9
Water outlet 35℃	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℃	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			℃ (DB)	-25~35			
	Outlet water temperature			℃	20~65			
Working range (Space Cooling)	Outdoor ambient temperature			℃ (DB)	5~46			
	Outlet water temperature			℃	5~22			
Working range (DHW)	Outdoor ambient temperature			℃ (DB)	-25~43			
	Tank water temperature			℃	30~60(75*4)			
Sound pressure level				dB(A)	47	50	50	54
Sound power level				dB(A)	61	63	64	67
Sound pressure level (low noise 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:
*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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OAT: Outdoor ambient temperature; IWT: Inlet water temperature; OWT: Outlet water temperature

Hisense

AIR TO WATER HEAT PUMP

Hi-Therma Monobloc

reddot winner 2022

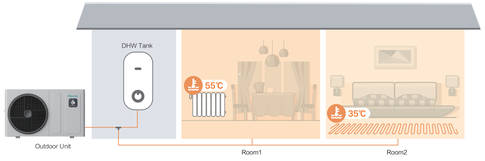
reddot winner 2022

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.

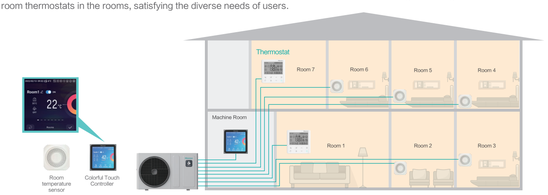
Two Separate Temperature Cycles

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

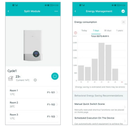
In one Hi–Therma system, the temperature of up to 7 rooms can be independently controlled through installing temperature sensors or room thermostats in the rooms, satisfying the diverse needs of users.



*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

PHE
(Plate Heat Exchanger)

Expansion Vessel

Water Pump
High head and large water flow pump

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.

Centralized control of different cycles

Independent control of rooms

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]

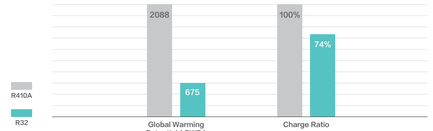
Hi–Therma offers the best and most efficient solution for home heating and hot water supply. It has the top class A+++ energy classification under the low–temperature water condition, and A++ under the mid–temperature water condition, which ensures you make savings on your energy bills, reducing electricity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

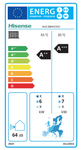
Eco–Friendly Refrigerant R32

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 CO_2 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.[+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 ≥=135%, profile XL: A+
2. Followed by (EU) No 811/2013, (EU) No 813/2013, (EU) No 814/2013

High Efficiency and Excellent Performance

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

User Convenience

- Red Dot award design
- Two separate temp. cycles
- Up to 7 rooms with independent temp. control (Max.)
- Low noise operation
- Night shift mode operation
- Centralised 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
Hi–Therma	R32 Monobloc	60℃	AC1Φ, 220–240V/50Hz	4.4 kW
				8.0 kW
	R32 (Preview) Monobloc	65℃	AC1Φ, 220–240V/50Hz (AC 3Φ, 380–415V/50Hz)	10.0 kW
				12.0 kW
				14.0 kW
				16.0 kW