Hisense

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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.





High Efficiency (A+++)

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.

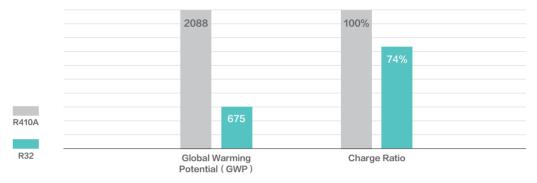
Eco-Friendly Refrigerant R32

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.*1 SCOP up to 5.00 (Average climate / Low temp. application): A+++, SCOP up to 3.42 (Average climate / Mid temp. application): A++ 2. Followed by (EU) No 811/2013, (EU) No 813/2013, (EU) No 814/2013

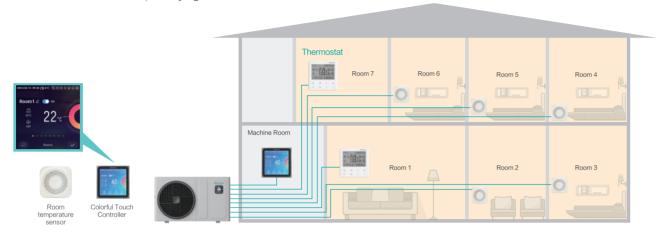
High-Efficiency Water Pump for Convenient and Cost-effective

Hi–Therma Monobloc unit features a built–in water pump with a maximum lift of up to 12.5 meters, eliminating the need for a separate external pump. This provides convenience and saves on installation costs, making it ideal for two–story or larger residential properties.



Up to 7 Rooms with Independent Temperature Control

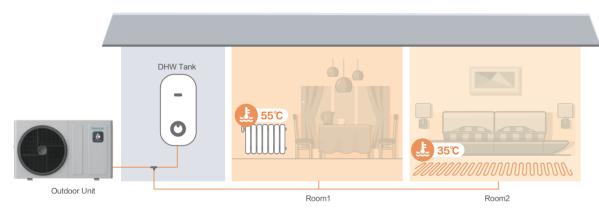
In one Hi–Therma system, the temperature of up to 7 rooms can be independently controlled through installing temperature sensors or room thermostats in the rooms, satisfying the diverse needs of users.



*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 are possible with the mixing valve kit, enabling different water temperatures for underfloor heating and the radiators.



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.





Smart App Control

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



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.



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.



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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.







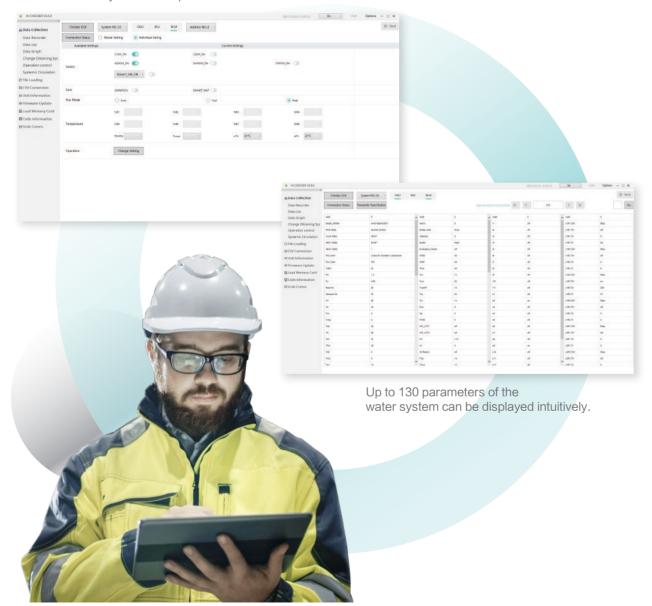




Black Box Function

OTA Update

Different water cycles in multiple rooms control



Easy to use

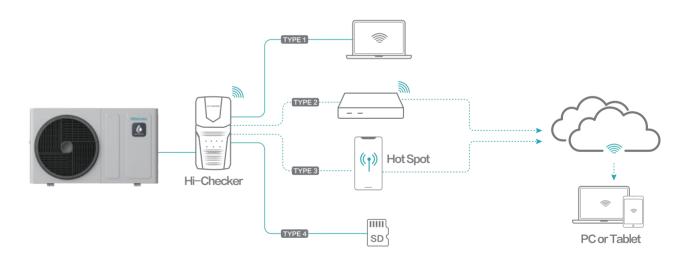
- Compact size which allows high portability and space saving.
- Capable to slot in a 32G memory card for data collection and storage. Also the memory card and card reader are standard with Hi–Checker.
- Multiple choices of power supply types. It can be powered by the standard adapter (DC 5V), computers 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 Suppy
HCCS-H64H2C2M	138×68×28	130	5V==-500mA

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High Efficiency and Excellent Performance



















R32 Eco-friendly refrigerant

efficiency

Interlock with 3rd party heat source

-25℃ stable

75°C domestic

(%) 75℃

Max 65°C outlet water Smart grid interlock temperature and PV enabled

High Intelligence

User Convenience



Red Dot award design

temp. cycles



Up to 7 rooms with independent temp.



Low noise operation



Night shift mode operation



of controllers







Centralised control and individual control

drying

pool heating

Visual display of energy consumption

Easy Installation and Maintenance



Smart App control





Water pressure and water flow monitoring

Long Long piping design

Product Lineup Overview

	Series	Max Temp. of Outlet Water	Power Supply	Capacity
	R32	00%	AOAA 200 240///F01-	4.4 kW
	Monobloc	60℃	AC1Φ, 220~240V/50Hz	8.0 kW
Hi-Therma	R32			10.0 kW
erma	Monobloc	65°C	AC1Φ, 220~240V/50Hz (AC 3Φ, 380~415V/50Hz)	12.0 kW
				14.0 kW
				16.0 kW

Specification



Monobloc (4~8kW)

	M	odel			AHZ-044HCDS1	AHZ-080HCDS1	
		r Supply			220-240		
		IWT/OWT	Capacity(Min./Nom./Max.)	kW	1.85 / 4.40 /7.00	2.10/ 8.00 / 11.0	
	OAT (DDAA(D)	30 / 35℃	COP (Nom.)	_	5.10	4.90	
	OAT (DB/WB) 7/6℃	IWT/OWT	Capacity (Nom./Max.)	kW	4.40 / 6.00	8.00 / 9.00	
		47 / 55°C	COP (Nom.)	-	3.00	2.80	
Heating Operation* ¹		IWT/OWT	Capacity (Nom./Max.)	kW	4.40 / 5.00	5.80 / 7.30	
	OAT (DDAA/D)	30 / 35℃	COP (Nom.)	-	3.26	3.14	
	OAT (DB/WB) -7 / -8℃	IVA/T/OVA/T	Capacity (Nom./Max.)	kW	4.00 / 4.20	5.00 / 6.40	
		IWT/OWT 47 / 55℃	COP (Nom.)	-	1.97	1.94	
		IWT/OWT	Nominal Capacity	kW	4.40	6.50	
	0.4.7 (D.D.4.4/D)	12 / 7℃	EER	-	4.00	3.35	
Cooling Operation*1	OAT (DB/WB) 35/−°C	IVA/T/OVA/T	Nominal Capacity	kW	5.60	7.00	
		IWT/OWT 23 / 18℃	EER	_	5.60	5.10	
			SCOP	_	5.17	5.00	
	Water Outlet 35℃	Spaconal	Heating Efficiency (ηs)	%	204	197	
	Water Outlet 33 C			70	A+++	A+++	
easonal Performance*2			nergy Rating	_		3.50	
	Motor O. Hat 55%	0	SCOP		3.47		
	Water Outlet 55℃		Heating Efficiency (ηs)	%	136	137	
			Energy Rating	-	A++	A++	
0 10 43		nal Mode (Heatin		dB(A)	47/47	50/47	
Sound Pressure*3		oise Mode (Heat		dB(A)	40/40	43/43	
		Shift Mode (Heat		dB(A)	36/36	39/39	
Sound Power		nal Mode (Heatin		dB(A)	61/61	64/61	
Fan Condenser Fan Quantity Air Flow Rate				_	1	1	
				m³/h	2700	2700	
Max. Running Current					10.53	17.53	
Recommended Fuse					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	
	Compressor		Туре	_	Rotary		
Refrigerant System	Refrigerant Charge		Туре		R32		
	Tronigorani onargo	В	efore Shipment	kg	1.17	1.21	
	Heating	Outdoor	Ambient Temperature	℃ (DB)	-25~35		
	Heating	Outlet	Water Temperature	℃	15~60		
	DHW Outdoor Am		Ambient Temperature	℃ (DB)	-25~40		
Operation Range	DHW	Tank	Water Temperature	℃	30~55(75* ⁴)		
	O E	Outdoor Ambient Temperature		℃ (DB)	5-46		
	Cooling	Outlet	Water Temperature	°C	5-22		
Nominal Water Flow	IWT:	30℃ / OWT: 35°	C ∆T:5°C	m³/h	0.77	1.38	
	Min. Wate	er Flow Rate		m³/h	0.50	0.60	
	Max. Lift Pressure			m	9		
DO Weber 2		Max. Water Flow	Rate	m³/h	4.5		
DC Water Pump		Speed		-	Inverter		
		Max. Power In	put	W	87		
	Water Ele	ctric Heater		kW	External (Opti	onal)	
		y Valve		bar	3		
		off Valve		-	2 pcs Suppl	ied	
			/pe	_	Screwed Conn		
	Connection Type						
				in.	G 1" - G 1" (fe	emale)	
Water Installation		Shutdown Valv	/es	in.	G 1" - G 1" (fe G 1" (fema		

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 EN 14825. 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.

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Specification





Monobloc (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- 160HEDS
Power Supply					1N, 220-240V, 50Hz 3N, 380-415V, 50Hz							
	OAT (DB/WB)	IWT / OWT	-	Unint				Parar	neters			
		30 / 35℃	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
	7/6℃	30733 C	COP (Nom.)	-	5.10	4.95	4.80	4.60	5.10	4.95	4.80	4.60
	7700	47 / 55℃	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
Nominal Heating		177000	COP (Nom.)	-	3.10	3.05	3.05	2.95	3.10	3.05	3.05	2.95
Operation*1		30 / 35℃	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
	-7/-8℃	307330	COP (Nom.)	-	3.10	3.00	2.85	2.80	3.10	3.00	2.85	2.80
	-//-80	47 / 55℃	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.
		477330	COP (Nom.)	-	2.20	2.15	2.10	2.00	2.20	2.15	2.10	2.00
		12/7℃	Nominal Capacity	kW	8.5	10	11	13	8.5	10	11	13
Nominal Cooling	35/℃	12// 0	EER	-	3.15	3.00	2.90	2.85	3.15	3.00	2.90	2.85
Operation*1	357	23 / 18℃	Nominal Capacity	kW	9	11	14	15.5	9	11	14	15.5
		23/100	EER	-	4.50	4.10	4.20	3.90	4.50	4.10	4.20	3.90
			SCOP	-	4.9	4.87	4.59	4.47	4.9	4.87	4.59	4.47
	Water Outlet 35℃	Seasonal Heating Efficiency (ηs)		%	193	192	181	176	193	192	181	176
Seasonal	30 0		Energy Rating	-	A+++	A+++	A+++	A+++	A+++	A+++	A+++	A+++
Performance*2			SCOP	-	3.62	3.47	3.37	3.35	3.62	3.47	3.37	3.35
	Water Outlet	Seasona	al Heating Efficiency (ηs)	%	142	136	132	131	142	136	132	131
	55℃	Energy Rating		-	A++	A++	A++	A++	A++	A++	A++	A++
	No	Normal Mode (Heating/Cooling)		dB(A)	47/47	49/49	51/51	53/53	47/47	49/49	51/51	53/53
Sound Pressure*3	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	No	ormal Mode (Heating/Cooling)		dB(A)	62/62	64/64	66/66	67/67	62/62	64/64	66/66	67/67
		Condenser Fan Quantity		-	1	1	1	1	1	1	1	1
Fan		Air Flow Rate		m³/h	3900	3900	4200	4200	3900	3900	4200	4200
Outer Dimensions	Height × WidthDepth		mm			376×390	1.000			376×390		
Packing Dimensions Height × Width × Depth mm						460×530				460 × 530		
		Veight	<u>'</u>	kg	1	08		23	11	0.5		25
		Weight		kg		27		42		29		44
	Compre		Type	-					tary			
	Refrigeration Oil		Туре	-	FW68S	FW68S	FW68S	FW68S	FW68S	FW68S	FW68S	FW68S
Refrigerant			Charge	L	0.87	0.87	1.25	1.25	0.87	0.87	1.25	1.25
System				_	0.07	0.07	1.20	1.23		0.07	1.23	1.20
Refrigeratio		ration Charge Type Before Shipment		kg	1.5	1.5	2.0	2.0	1.5	1.5	2.0	2.0
	Outdo		or Ambient Temperature	°C (DB)	1.0	1.0	2.0	-25		1.0	2.0	2.0
	Heating		et Water Temperature	°C (DD)	20~65							
0 "			or Ambient Temperature	°C (DB)	-25~43							
Operation Range	DHW		nk water temperature	°C (DB)	30~60(75*²)							
-		Outdoor Ambient Temperature C (DB)		5~46								
	Cooling		et Water Temperature	€ (DB)				5~				
Water Flow Rate	I\A/I		T: 35℃ ΔT: 5℃	m ³ /h	1.72	2.06	2.41	2.75	1.72	2.06	2.41	2.75
	1001			m						2.75		
vvaici i low reac	Max. Lift Pressure		m ³ /h	12.5								
		May Wate	Max. Water Flow Rate		4							
DC Water Pump				_		Inverter 180						
		Ty	/pe									
	Safatura	Ty Max. Po		- W				18	80			
	Safety va	Max. Po	/pe	W -				18 Yes (:	30 3 bar)			
	Safety va	Max. Po Mav. Po alve ralve	/pe wer Input	W - in.				18 Yes (7 1", [3 bar) 0N25			
	-	Ty Max. Po alve valve Conne	rpe wer Input action type	W – in. –				Yes (; 1", [Screwed c	30 3 bar) DN25 connection			
	-	Max. Po Max. Po alve ralve Conne Shutdo	/pe wer Input	W - in.			G	18 Yes (7 1", [3 bar) DN25 connection - G 1" (female	e)		

Accessories



Auxiliary electrical heater

	Model		DRE-300WG	DRE-600WG	DRE-S600WG
	Power	-	220-240V~50Hz	220-240V~50Hz	380-415V 3~50Hz
	Max curruent	А	14.3	28.7	9.52
Power supply	Cable Size	mm²	3×2.5	3×6.0	5×2.5
	CB	А	16	32	16
	ELB	No. of poles/A/mA	2/16/30	2/32/30	3/16/30
Dimensions	$H \times W \times D$	mm	494 × 317 × 104.5	494 × 317 × 104.5	494 × 317 × 104.5
Wei	ght	Kg	6.9	7.7	8.1
	step 1	kW	1	2	2
Regulated electrical	step 2	kW	2	4	4
heater capacity	step 3	kW	3	6	6
	Water Inlet	-	G1" (male)	G1" (male)	G1" (male)
Connections	Water Outlet	-	G1" (male)	G1" (male)	G1" (male)
Vessel	l Material	-	304 (Stainless steel)	304 (Stainless steel)	304 (Stainless steel)
Maximum V	Vater Pressure	bar	10	10	10
Air pu	rge valve	-	YES	YES	YES
Auto-reset Sa	afety Thermostat	-	75℃ ±4℃	75℃ ±4℃	75℃±4℃
Manual Reset	Safety Thermostat	_	85℃±5℃	85℃±5℃	85℃±5℃

Others

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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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; WT: Inlet water temperature; OWT: Outlet water temperature