



reddot winner 2022

Hisense

INTEGRA

Hi-Therma
Series



011-1W0579
011-1W0580

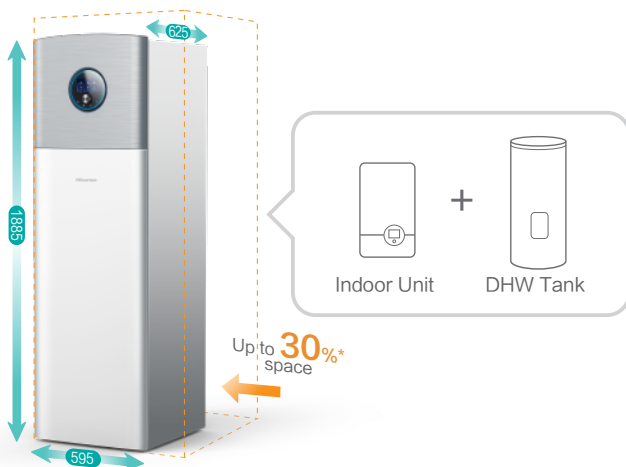


Simplified Installation and More Space-Saving

The All-in-One design of the integrated indoor unit and water tank inside Integra makes on-site installation simple, easy, and quick for everyone.

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.

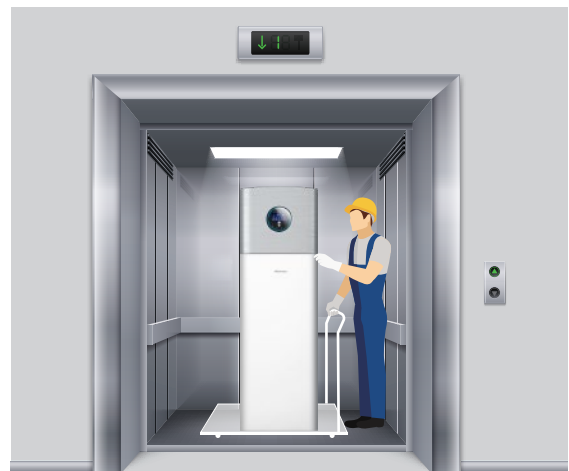


Note: *Compared to Hi-Therma Split + 230L DHW Tank.

Unit: mm

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.



User-Friendly Design

A rounded corner design reduces risk of damage from bumping and collision, and also ensures safety for daily use.

Intuitive Human-Computer Interaction Experience

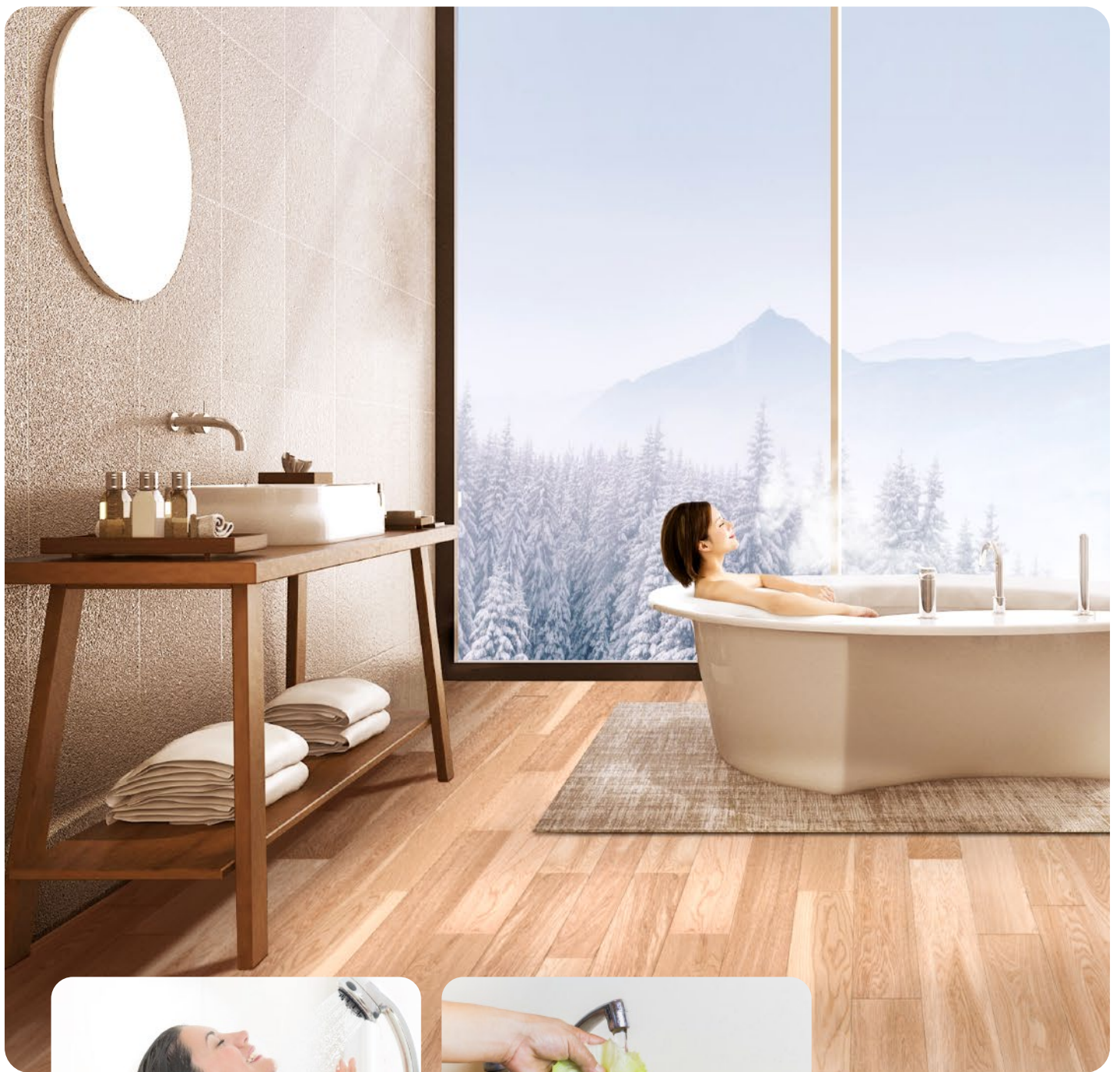
The controller is simple to use and navigate with the intuitive light strip showing you the real-time status of your system.



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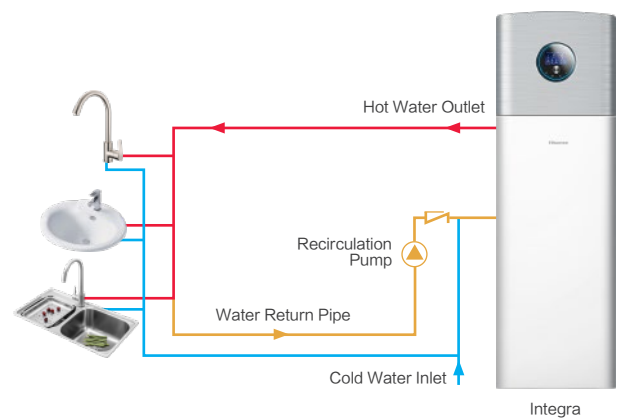
Awarded the 2022 Reddot Award Winner, the lines of succession and innovation have been carefully crafted and are sleeker than any piece of hardware ever designed.





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 A+++^{*1} A+^{*2}

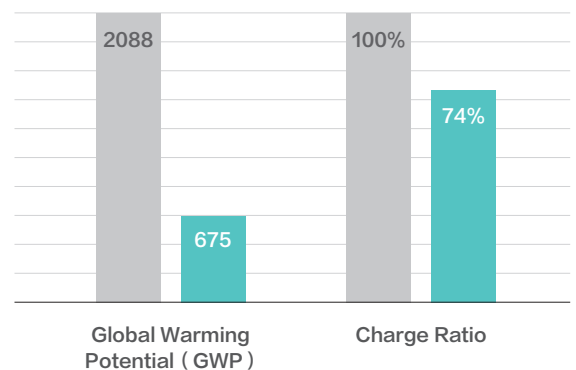
R-32

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 utilizes 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



Energy Consumption Display

Energy consumption can be displayed intuitively on the controller for precise energy management.

Eco Setting

The system setting supports one-click activation of Eco Mode for maximum energy saving.

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++

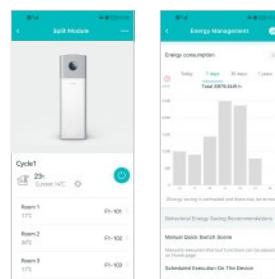
*² DHW Efficiency $\eta=135\%$, profile XL: A+

2. Followed by (EU) No 811/2013, (EU) No 813/2013, (EU) No 814/2013

High Intelligence and Smart Control

Smart App Control

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



Hi-Mit II Adaptor

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 customers.

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



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.



HSXM-FE01

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

*Note: Optional for Hi-Therma Integra.

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.

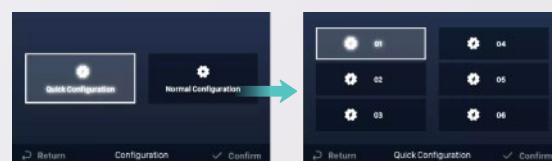


Plate Heat Efficiency and Anti-Freeze

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.

Engineering Tools

Hi-Therma Designer is a specialized program for choosing Hisense ATW heat pump products, enabling an accurate and quick model selection for projects. It's an online tool for quick and easy access, and fully compatible with computer, tablet and smartphone. Users can open and edit the project at any time and from anywhere.

- ◆ User-friendly operation
- ◆ Energy consumption calculation
- ◆ CO₂ emission calculation
- ◆ Noise level assessment
- ◆ Selection comparison
- ◆ Customization of accessories



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
Wall mounted room temperature sensor	HCT-S01E	Wall mounted room temperature sensor, with communication to heat pump system.	Hi-Therma series
Room thermostat	HSXE-VC04	Room thermostat for room temperature control, with communication to heat pump system.	Hi-Therma series
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 (only for 10~16kW)

System Performance



Model				AHS-044HCDSAA-23 + AHW-044HCDS1	AHS-060HCDSAA-23 + AHW-060HCDS1	AHS-080HCDSAA-23 + AHW-080HCDS1	
OAT(DB/WB)		IWT / OWT	—	Unit	Heating operation		
Heating	7/6℃	30/35℃	Capacity (Min./Nom./Max.)	kW	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
		47/55℃	Capacity (Nom./Max.)	kW	4.40 / 6.00	6.00 / 7.50	8.00 / 9.00
			COP (Nom.)	—	3.00	3.05	2.80
Heating	-7/-8℃	30/35℃	Capacity (Nom./Max.)	kW	4.40 / 5.00	5.30 /5.90	5.80 /7.30
			COP (Nom.)	—	3.26	3.16	3.14
		47/55℃	Capacity (Nom./Max.)	kW	4.00 / 4.20	4.70 / 5.10	5.00 / 6.40
			COP (Nom.)	—	1.97	2.04	1.94
Cooling	35/-℃	12/7℃	Nominal capacity	kW	4.40	5.00	6.00
			EER	—	3.90	3.70	3.60
		23/18℃	Nominal capacity	kW	5.60	6.00	7.00
			EER	—	5.60	5.60	5.10
ODU sound pressure normal mode (Heating/Cooling)				dB(A)	47/47	48/47	50/47
ODU sound power normal mode (Heating/Cooling)				dB(A)	61/61	62/61	64/61
Water outlet 35℃			SCOP	—	5	4.93	4.92
			Seasonal heating efficiency (η s)	—	197	194	194
			Energy rating	—	A+++	A+++	A+++
Water outlet 55℃			SCOP	—	3.23	3.33	3.42
			Seasonal heating efficiency (η s)	—	126	130	134
			Energy rating	—	A++	A++	A++
DHW energy efficiency class				—	A+	A+	A+
Efficiency η DHW				—	135%	135%	135%
Outdoor Unit	Outer Dimensions		Height × Width × Depth	mm	750 × 900 × 340	750 × 900 × 340	750 × 900 × 340
	Packing Dimensions		Height × Width × Depth	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

Integra Specification

Model			AHS-044HCDSAA-23	AHS-060HCDSAA-23	AHS-080HCDSAA-23
Water tank volume			L	230	230
Water tank material			—	DUPLEX 2205	
Power supply			—	AC 1Φ, 220-240V/50Hz	
Dimensions	Height × Width × Depth	mm	1885 × 595 × 625	1885 × 595 × 625	1885 × 595 × 625
Packing Dimensions	Height × Width × Depth	mm	2070 × 700 × 710	2070 × 700 × 710	2070 × 700 × 710
Net Weight		kg	124.5	124.5	125.0
Gross Weight		kg	145.0	145.0	145.5
Water flow rate		L/min	12.8	17.2	23.0
Water pump type			—	DC Inverter	
Static pressure at nominal flow (Standard/High resistance mode)			mwc	7.0/9.0	8.0/9.0
Availabl(External) pump head (Standard/High resistance mode)			mwc	5.5/8.0	3.0/6.0
E-heater for heating			kW	1+1+1	1+1+1
Sound power level			dB(A)	42	42
Working range (Heating)	Outdoor ambient temperature	℃(DB)	-25-35		
	Outlet water temperature	℃	15-60*		
Working range (Cooling)	Outdoor ambient temperature	℃(DB)	5-46		
	Outlet water temperature	℃	5-22		
Working range (DHW)	Outdoor ambient temperature	℃(DB)	-25-40		
	Tank water temperature	℃	30-55(75*)		
Space heating pipes connection	Inlet pipe diameter	mm (in.)	G1"		
	Outlet pipe diameter	mm (in.)	G1"		
DHW pipes connection	Inlet pipe diameter	mm (in.)	G3/4"		
	Outlet pipe diameter	mm (in.)	G3/4"		
Refrigerating connection	Connection type	—	Flare Nut Connection		
	Liquid pipe	mm (in.)	Φ6.35 (1/4")	Φ6.35 (1/4")	Φ6.35 (1/4")
	Gas pipe	mm (in.)	Φ12.70 (1/2")	Φ12.70 (1/2")	Φ15.88 (5/8")

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