

Hisense

Hi-Smart **E** series Home Central Air Conditioning

Hisense

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HSEE1205

R410A

SMART

Choice, is a way of life, also an attitude of life. Base on Hisense leading technical platform, Hisense Home Central Air Conditioning strives to provide comfort and reliable central air conditioning system for people, creates modern, healthy and low carbon living space and life philosophy. Choose Hisense Hi-Smart, Choose Hisense Hi-Life.

Hisense *Hi*·Life

Hi | Welcome to Hisense Hi-Smart Home Central Air Conditioning Elegant Home System

In 2011, Hisense Group issued intelligent strategy, which marked the arrival of Hisense intelligent age.

Hisense Hi-Smart Series stems from Hisense high-quality and high-grade intelligent Home Central Air Conditioning. It relies on Hisense high technical platform of inverter-driven central air conditioning and has a brand gene of high-tech and high-quality from the date of birth, which perfectly implements the Hisense value concept of "create perfect, service society"

The outdoor unit of Hi-Smart E series adopts compact body design which realizes flexible placement and space-saving. The delicate design of indoor units and elegant home decoration style set off mutually. Different types of indoor units for different room functions create high-grade living environment.

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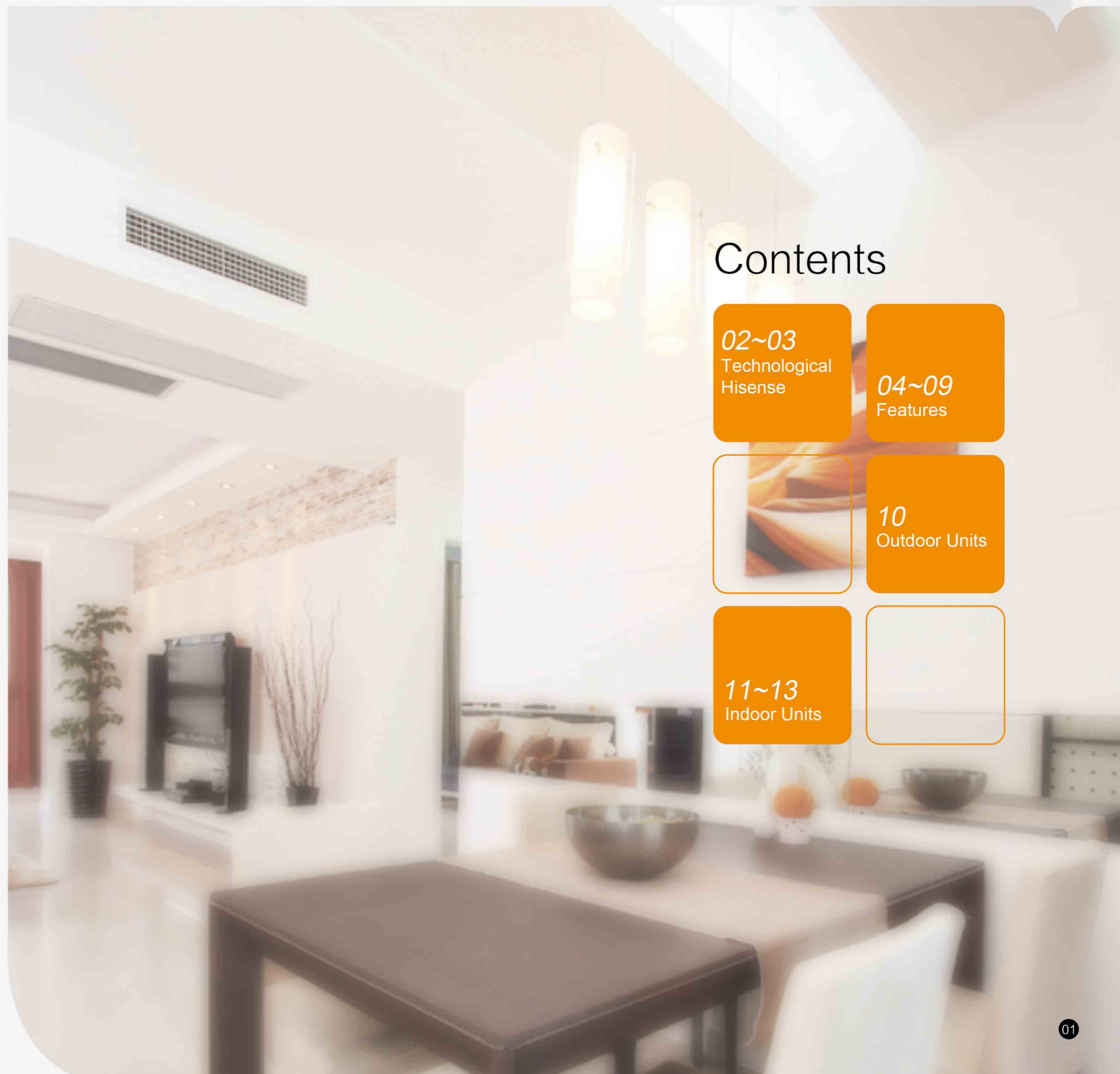
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Technological Hisense

Hisense is a large electronic information industry corporation of China founded in 1969 and owns Hisense Appliance and Hisense Kelon Appliance these two listed companies. Furthermore, Hisense is the only enterprise group in China which has three well-known trademarks as Hisense, Kelon and Ronshen at the same time.

Hisense adheres to the development strategy as "Technology Support, Steady Operation" and sustains healthy development by taking optimized industrial structure as the base, technological innovation as the drive force, and capital operation as a leverage. In the 21st century, with powerful R&D strength and excellent internationalized management team, Hisense has speeded up the pace of industrial expansion and formed an industrial structure including digital multimedia, home appliances, communications, intelligent information systems, modern real estate and service.



Hisense



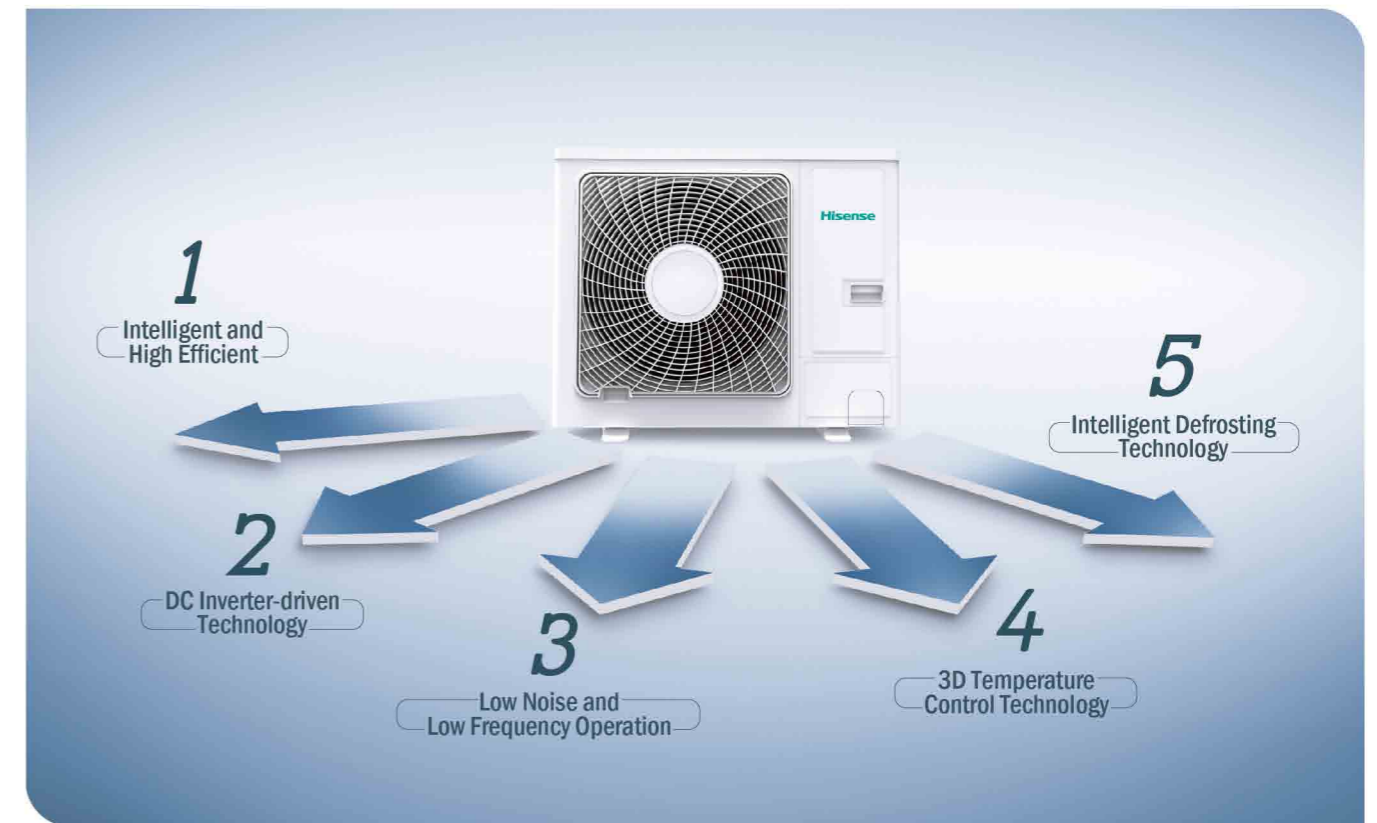
Hisense E Series, Leading Low Carbon New Life

The Earth is the home of ours! Pay close attention to the climate change together with Hisense, choose R410A environmentally friendly refrigerant and focus on low carbon lifestyle. Low carbon lifestyle is a kind of love, a kind of attitude and even a kind of responsibility. Earth protection and living environment protection start from the choice of Hisense.

R410A

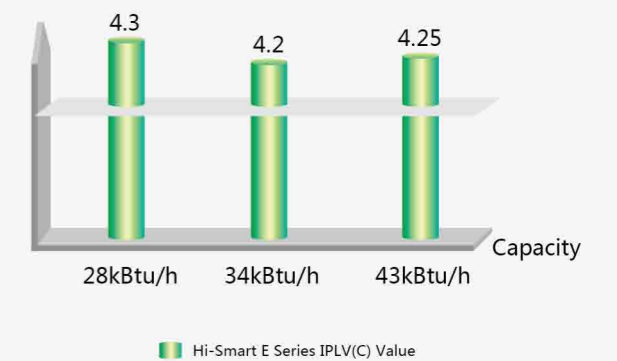


Five Core Technologies



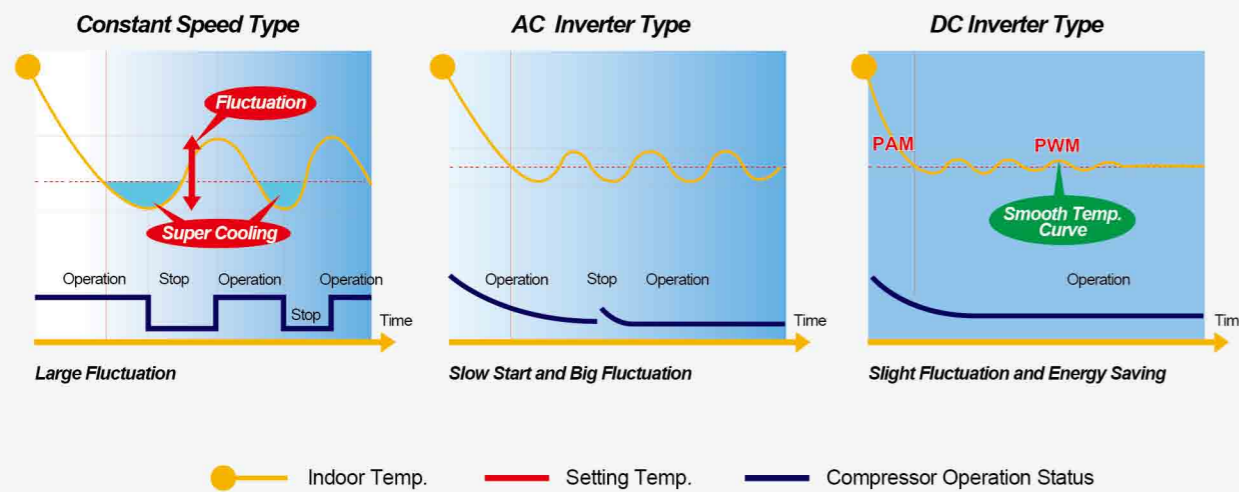
01 Intelligent and High Efficient

Hi-Smart E series adopts high efficient DC inverter compressor. With the unique energy saving technology, outstanding aseismatic technology and the individual control of indoor units, capacity output can realize intelligent adjustment and the COP of system can be higher under part load, which contributes to leading comprehensive energy efficiency coefficient and higher system stability.



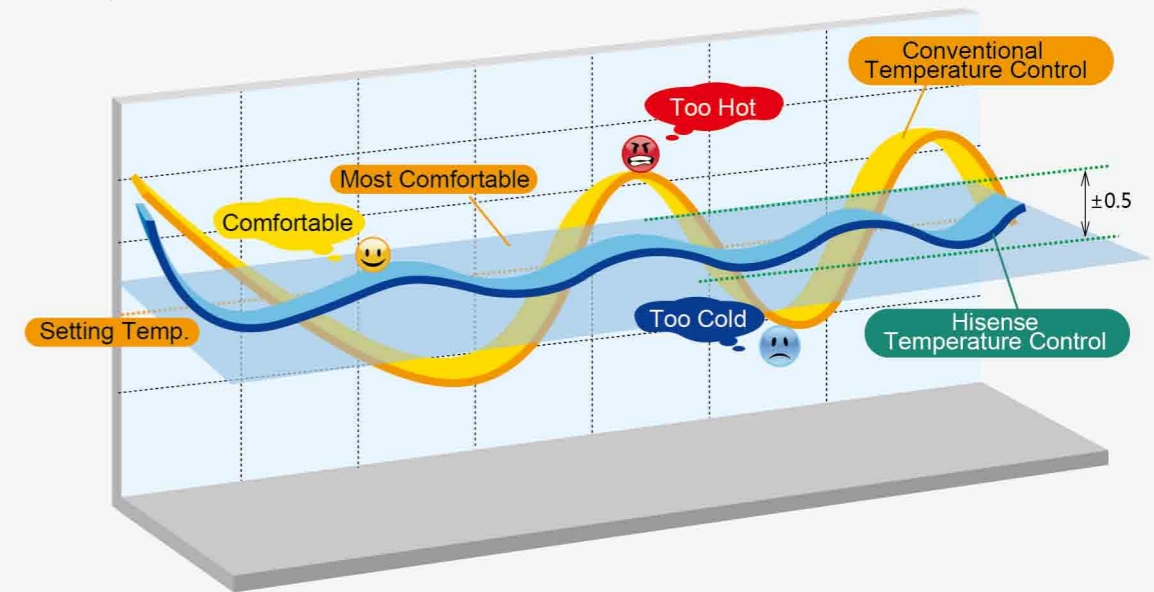
02 DC Inverter-driven Technology

Hi-Smart E series leads the technology changes. It realizes precise compressor frequency control from 20Hz to 115Hz by adopting DC inverter, PAM(Pulse Amplitude Modulation), PWM(Pulse Width Modulation) and PFC(Power Factor Correction) comprehensive control technology, which helps create a healthy, low-carbon and energy-saving living environment.



04 3D Temperature Control Technology

Hi-Smart E series sets temperature sensors on air outlet/air inlet of indoor units and remote controller to detect the temperature change of indoor and outdoor sensitive points accurately and regulate indoor temperature automatically, which can maintain the room temperature within 0.5°C of setting temperature and satisfy the indoor comfort requirement.



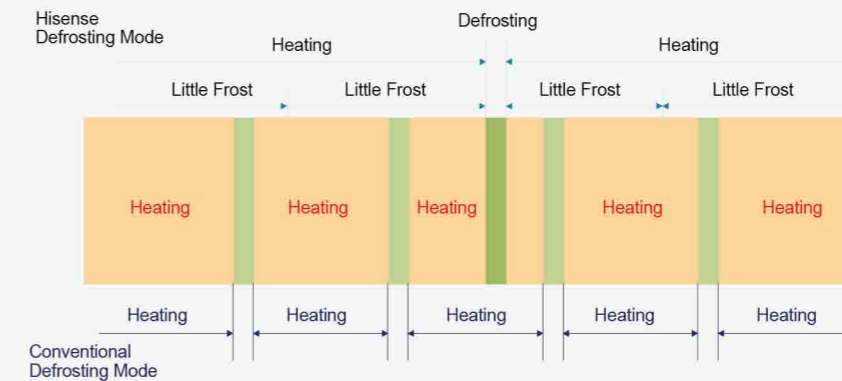
03 Low Noise and Low Frequency Operation

Hi-Smart E Series adopts cutting-edge low-frequency intelligent control technology to realize continuous quiet operation. Through technological innovation, Indoor and outdoor unit fan motors can be adjusted to low-speed rotation and quiet operation automatically according to requirement, which achieves the dual low noise for indoor units and outdoor units. The lowest noise level of the indoor unit is only 22 dB(A).



05 Intelligent Defrosting Technology

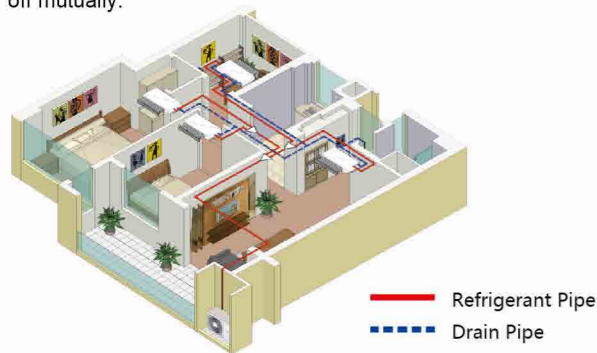
Hi-Smart adopts the leading intelligent defrosting technology and precisely calculates the defrosting time, which largely increases effective heating operation time in winter and ensures heating capacity.



Four Unique Designs Create Refined Life

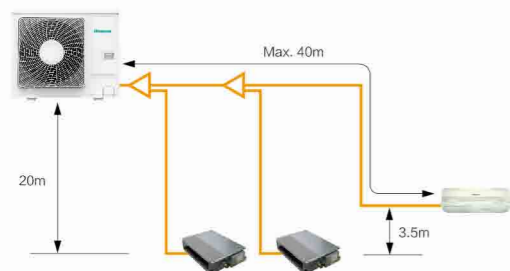
01 Intelligent Multi-split Design

Hi-Smart E outdoor unit adopts the leading single-piping connection technology and connects multiple indoor units freely. The indoor unit adopts 2000-step micro-computer EEV (electronic expansion valve) to achieve automatic refrigerant flow control according to indoor load, which results in more precise and comfortable temperature control. Hi-Smart provides various indoor units for selection according to room structure and function, which makes the high-grade air conditioning design and the elegant home decoration style set off mutually.



03 Flexible Long Piping Design

Max. piping length is 40m. Max. height difference between outdoor and indoor units is 20m. Height difference between highest and lowest indoor units is 3.5m. Design and installation are more convenient.



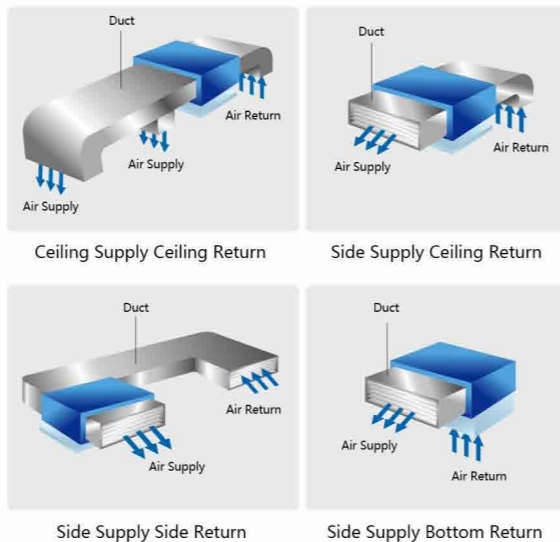
02 Slim and Refined Body Design

The compact outdoor unit can be flexibly placed according to outdoor condition. Low-height in-the-ceiling type can be easily installed inside the low-height residential ceiling with a height of 192mm, which makes low height indoor units and elegant home decoration style set off mutually.



04 Flexible Ways of Air Supply Design

Customers can choose different air supply ways according to different construction structure and interior decoration, which can realize all-directional circulating airflow and comfort in every corner of the rooms.



Three Service Systems Provide High Quality Whole Customized Solution

Hisense always provides services for customers wholeheartedly through personalized custom design, superb technical teamwork and efficient after-sale service teamwork from the standpoints of customers, which creates excellent and high quality life for customers.

01 High Quality Project Design

Adhering to the aim of the company --"Serve Customers Wholeheartedly" and according to the customers' requirements, Hisense professional technical engineers provide recommended products combinations and optimized projects designs.

02 High Quality Installation Services

Adhering to the aim of the company --"Serve Customers Wholeheartedly", Hisense always proceeds from brand core values and customers' quality requirements, provides professional technical training for installation engineers, conducts installation work according to technical standards strictly, and performs fine commissioning work, which ensures good operation of system.

03 High Quality After-sales Services

Adhering to the aim of the company --"Serve Customers Wholeheartedly", Hisense remains efficient service awareness, good professional quality and high-degree social responsibility. Service personnel will arrived at the site in time, perform maintenance work in accordance with standard procedures and regulations strictly, and provide thoughtful and meticulous service for customers when they are in trouble.



Outdoor Units Data

Model Power Supply	AC1Φ 220V/50Hz	AVW-28UCSB	AVW-34UCSB	AVW-43UCSB
	AC1Φ 240V/50Hz	AVW-28UDSB	AVW-34UDSB	AVW-43UDSB
	AC1Φ 220V/60Hz	AVW-28U2SB	AVW-34U2SB	AVW-43U2SB
Nominal Cooling Capacity	kW	8.0	10.0	12.5
	Btu/h	27,300	34,100	42,700
Nominal Heating Capacity	kW	9.5	11.2	14.0
	Btu/h	32,400	38,200	47,800
Outer Dimensions	H	mm	800	800
	W	mm	950	950
	D	mm	370	370
Net Weight	kg	65	73	78
Sound Pressure Level (Cooling/Heating)	dB(A)	50/52	53/54	54/57
Max Number of Connectable Indoor Units		3	4	4
Refrigerant		R410A		
Operation Range	Cooling	10~43°CDB		
	Heating	-15~-15°CWB		
Refrigerant Flow Control		Micro-Computer Control Expansion Valve		
Refrigerant Piping		Flare-Nut Connection		
Liquid Line	mm	Φ9.53		
Gas Line	mm	Φ15.88		
Piping Connection		Multi-Kit Connection		

NOTES:

1. The nominal cooling capacity and heating capacity are based on following conditions:

Cooling Operation Conditions
 Indoor Air Inlet Temperature: 27°C DB(80°F DB)
 19.0°C WB (66.2°F WB)
 Outdoor Air Inlet Temperature: 35°C DB(95°F DB)
 Piping Length: 7.5 Meters Piping Lift: 0 Meter

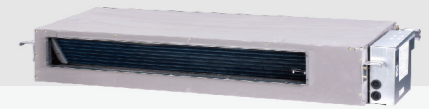
Heating Operation Conditions
 Indoor Air Inlet Temperature: 20°C DB(68°F DB)
 Outdoor Air Inlet Temperature: 7°C DB(45°F DB)
 6°C WB(43°F WB)

2. The sound pressure level is based on following conditions. 1.5m beneath the unit.

The above data was measured in an anechoic chamber so that reflected sound should be taken into consideration in the field.



Low-height In-the-ceiling Type



- With a height of 192mm and a depth of 447mm, it can be easily installed inside the low height residential ceiling.
- Choose proper way of air return according to actual installation condition. (Noise level may increase in case of bottom air return)
- Air flow rate can be adjusted by 3 grades, lower noise in lower grade.
- Standard drain pump realize 900mm lift and meet various requirement.

Indoor Units Data

Indoor Unit	Low-height In-the-ceiling Type									
Model Power Supply	AC1Φ 220V/50Hz	AVE-07 URCSAL1	AVE-09 URCSAL1	AVE-12 URCSAL1	AVE-14 URCSAL1	AVE-17 URCSAL1	AVE-18 URCSAL1	AVE-22 URCSAL1	AVE-24 URCSAL1	
	AC1Φ 240V/50Hz	AVE-07 URDSAL1	AVE-09 URDSAL1	AVE-12 URDSAL1	AVE-14 URDSAL1	AVE-17 URDSAL1	AVE-18 URDSAL1	AVE-22 URDSAL1	AVE-24 URDSAL1	
Nominal Cooling Capacity	AC1Φ 220V/60Hz	AVE-07 UR2SAL1	AVE-09 UR2SAL1	AVE-12 UR2SAL1	AVE-14 UR2SAL1	AVE-17 UR2SAL1	AVE-18 UR2SAL1	AVE-22 UR2SAL1	AVE-24 UR2SAL1	
	kW	2.2	2.8	3.6	4.3	5.0	5.6	6.3	7.1	
Nominal Heating Capacity	kcal/h	1,900	2,400	3,100	3,700	4,300	4,800	5,400	6,100	
	Btu/h	7,500	9,600	12,300	14,700	17,100	19,100	21,500	24,200	
Sound Pressure Level (High/Medium/Low)	kW	2.8	3.3	4.2	4.9	5.6	6.5	7.5	8.5	
	kcal/h	2,400	2,800	3,600	4,200	4,800	5,600	6,500	7,300	
Outer Dimensions (H x W x D)	Btu/h	9,600	11,300	14,300	16,700	19,100	22,200	25,600	29,000	
	dB(A)	28-25-22	28-25-22	32-30-27	32-30-27	35-31-29	35-31-29	36-34-31	36-34-31	
Net Weight	mm	192×900×447	192×900×447	192×900×447	192×900×447	192×1170×447	192×1170×447	192×1170×447	192×1170×447	
Refrigerant	kg	20	20	21	21	26	26	26	26	
Indoor Fan Air Flow Rate (High/Medium/Low)		R410A(Nitrogen-charged for Corrosion-resistance)								
Motor Power	m³/min	8/7/6	8/7/6	10/8/7	10/8/7	14.5/12.5/10.5	14.5/12.5/10.5	16/14/12	16/14/12	
Connections Refrigerant Piping	W	50	50	70	70	90	90	100	100	
Liquid Line		Flare-nut Connection(with Flare Nuts)								
Gas Line	mm	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ9.53	Φ9.53	
Condensate Drain	mm	Φ12.7	Φ12.7	Φ12.7	Φ12.7	Φ15.88	Φ15.88	Φ15.88	Φ15.88	
External Static Pressure		VP25(Outer Diameter Φ32)								
Approximate Packing Measurement	Pa	10(30)	10(30)	10(30)	10(30)	10(30)	10(30)	10(30)	10(30)	
	m³	0.15	0.15	0.15	0.15	0.18	0.18	0.18	0.18	

NOTES:

1. The nominal cooling capacity and heating capacity are based on following conditions:

Cooling Operation Conditions
 Indoor Air Inlet Temperature: 27°C DB(80°F DB)
 19.0°C WB (66.2°F WB)
 Outdoor Air Inlet Temperature: 35°C DB(95°F DB)
 Piping Length: 7.5 Meters Piping Lift: 0 Meter

Heating Operation Conditions
 Indoor Air Inlet Temperature: 20°C DB(68°F DB)
 Outdoor Air Inlet Temperature: 7°C DB(45°F DB)
 6°C WB(43°F WB)

2. The sound pressure level is based on following conditions. 1.5m beneath the unit. The above data was measured in an anechoic chamber so that reflected sound should be taken into consideration in the field.



Slim In-the-Ceiling Type



- With a height of 192mm and a width of 700mm, it can be easily installed inside the narrow residential ceiling.
- Choose proper way of air return according to actual installation condition. (Noise level may increase in case of bottom air return)
- Air flow rate can be adjusted by 3 grades, lower noise in lower grade.
- Standard drain pumps realize 900mm lift and meet various requirements.



Wall Type



- Elegant design harmonizes with any type of interior design.
- Anti-mold filter is equipped as standard accessory.
- The flap provided with three flow guides each at its right and left sides helps disperse the air flow, which contributes to sound air distribution.
- Compact and light weight allow easy installations

Indoor Units Data

Indoor Unit		Slim In-the-Ceiling Type				
Model	Power Supply	AC1Φ 220V/50Hz	AVE-07 URCSGL1	AVE-09 URCSGL1	AVE-12 URCSGL1	AVE-14 URCSGL1
Nominal Cooling Capacity	kW	2.2	2.8	3.6	4.3	
	kcal/h	1,900	2,400	3,100	3,700	
	Btu/h	7,500	9,600	12,300	14,700	
Nominal Heating Capacity	kW	2.8	3.3	4.2	4.9	
	kcal/h	2,400	2,800	3,600	4,200	
	Btu/h	9,600	11,300	14,300	16,700	
Sound Pressure Level (High/Medium/Low)	dB(A)	28-25-22	28-25-22	32-30-28	32-30-28	
Outer Dimensions (H x W x D)	mm	192×700×602	192×700×602	192×700×602	192×700×602	
Net Weight	kg	21	21	21	21	
Refrigerant		R410A(Nitrogen-charged for Corrosion-resistance)				
Indoor Fan Air Flow Rate (High/Medium/Low)	m ³ /min	8/7/6	8/7/6	10/8/7	10/8/7	
Motor Power	W	50	50	60	60	
Connections Refrigerant Piping		Flare-nut Connection(with Flare Nuts)				
Liquid Line	mm	Φ6.35	Φ6.35	Φ6.35	Φ6.35	
Gas Line	mm	Φ12.7	Φ12.7	Φ12.7	Φ12.7	
Condensate Drain		VP25(Outer Diameter Φ32)				
External Static Pressure	Pa	10(30)	10(30)	10(30)	10(30)	
Approximate Packing Measurement	m ³	0.15	0.15	0.15	0.15	

NOTES:

1.The nominal cooling capacity and heating capacity are based on following conditions:

Cooling Operation Conditions
 Indoor Air Inlet Temperature: 27°C DB(80°F DB)
 19.0°C WB (66.2°F WB)
 Outdoor Air Inlet Temperature: 35°C DB(95°F DB)
 Piping Length: 7.5 Meters Piping Lift: 0 Meter

Heating Operation Conditions
 Indoor Air Inlet Temperature: 20°C DB(68°F DB)
 Outdoor Air Inlet Temperature: 7°C DB(45°F DB)
 6°C WB(43°F WB)

2. The sound pressure level is based on following conditions.1.5m beneath the unit.

The above data was measured in an anechoic chamber so that reflected sound should be taken into consideration in the field.

Indoor Units Data

Indoor Unit		Wall Type				
Model	Power Supply	AC1Φ 220V/50Hz	AVS-09URCSRAA1	AVS-14URCSRAA1	AVS-18URCSRAA1	AVS-22URCSRAA1
	Power Supply	AC1Φ 240V/50Hz	AVS-09URDSRAA1	AVS-14URDSRAA1	AVS-18URDSRAA1	AVS-22URDSRAA1
Nominal Cooling Capacity*2	kW	2.8	4.0	5.6	6.3	
	kcal/h	2,400	3,400	4,800	5,400	
	Btu/h	9,600	13,700	19,100	21,500	
Nominal Heating Capacity	kW	3.2	4.8	6.3	7.5	
	kcal/h	2,800	4,100	5,400	6,500	
	Btu/h	10,900	16,400	21,500	25,600	
Sound Pressure Level (High/Medium/Low)	dB(A)	38-35-32	42-38-35	43-39-36	44-40-38	
Cabinet Color		Silky White				
Outer Dimensions(H x W x D)	mm	305 x 870 x 225				
Net Weight	kg	9	16	22	24	
Refrigerant		R410A(Nitrogen-charged for Corrosion-resistance)				
Indoor Fan Air Flow Rate (Cooling/Heating)	m ³ /min	6.9/6.5/6.1	10.5/10.1/9.6	12.8/12.2/11.6	13.3/12.8/12.1	
Motor Power	W	30	40	50	50	
Connections Refrigerant Piping		Flare-nut Connection(with Flare Nuts)				
Liquid Line	mm	Φ6.35	Φ6.35	Φ6.35	Φ6.35	
Gas Line	mm	Φ12.7	Φ12.7	Φ15.88	Φ15.88	
Condensate Drain		VP16	VP16	VP16	VP16	
Approximate Packing Measurement	m ³	0.11	0.11	0.11	0.11	
Standard Accessories		Wall Mounting Bracket				

NOTES:

1.The nominal cooling capacity and heating capacity are based on following conditions:

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 19.0°C WB (66.2°F WB)
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