

Specifications

HP	8HP	10HP	12HP	14HP	16HP	18HP	20HP	22HP
Model(AVWT~HKF5S)	76	96	114	136	154	170	190	212
Power Supply	380~415V 3~50Hz/60Hz							
Cooling	Capacity*1	kW	22.4	28.0	33.5	40.0	45.0	50.4
		kBtu/h	76.4	95.5	114.3	136.5	153.5	171.9
	Power Input	kW	5.91	7.80	9.57	12.50	15.05	14.20
	EER	kW/kW	3.79	3.59	3.50	3.20	2.99	3.55
	SEER	kW/kW	7.55	7.42	7.31	7.30	7.16	7.10
Heating	Capacity (Max/Nom)*1	kW	25/22.4	31.5/28.0	37.5/33.5	45/40	50/45	56/50.4
		kBtu/h	85.3/76.4	107.4/95.5	127.9/114.3	153.5/136.5	170.6/153.5	191/171.9
	Power Input (Max/Nom)	kW	5.68/4.8	7.22/6.1	9.08/7.19	11.6/9.66	13.97/11.19	15.63/12.1
	COP (Max/Nom)	kW/kW	4.4/4.67	4.36/4.59	4.13/4.66	3.88/4.14	3.58/4.02	3.78/4.55
	SCOP	kW/kW	4.46	4.35	4.60	4.60	4.49	5.01
Air Flow Rate	m³/min	225	225	275	275	292	258	317
Sound Pressure Level*2	dB(A)	59	59	61	61	63	64	65
Weight	kg	222	222	245	245	245	267	368
Dimensions (H×W×D)	mm	1800x800x825		1800x940x825		1800x1390x825		
Ref. Piping	Gas	mm	φ19.05	φ22.20	φ25.40	φ25.40	φ28.60	φ28.60
	Liquid	mm	φ9.53	φ9.53	φ12.70	φ12.70	φ15.88	φ15.88
Connectable Indoor Units	Quantity	pcs	18	20	24	28	32	40
	Connection Ratio*3	—	30~200%					

HP	24HP	26HP	28HP	30HP	32HP	34HP	36HP
Model(AVWT~HKF5S)	232	250	272	290	307	324	343
Power Supply	380~415V 3~50Hz/60Hz						
Cooling	Capacity*1	kW	68.0	73.5	78.5	85.0	90.0
		kBtu/h	232.0	250.7	267.8	290.0	307.0
	Power Input	kW	22.74	25.09	25.65	30.25	31.69
	EER	kW/kW	2.99	2.93	3.06	2.81	2.84
	SEER	kW/kW	6.40	5.80	6.30	6.00	5.90
Heating	Capacity (Max/Nom)*1	kW	75.0/68.0	82.5/73.5	87.5/78.5	95/85	100/90
		kBtu/h	255.9/232	281.4/250.7	298.5/267.8	324.1/290	341.2/307
	Power Input (Max/Nom)	kW	20.16/15.18	21.32/15.94	20.73/17.72	23.23/19.63	24.75/20.36
	COP (Max/Nom)	kW/kW	3.72/4.48	3.87/4.61	4.22/4.43	4.09/4.33	4.04/4.42
	SCOP	kW/kW	4.84	4.27	4.55	4.35	4.51
Air Flow Rate	m³/min	317	400	408	408	467	467
Sound Pressure Level*2	dB(A)	66	66	67	67	67	68
Weight	kg	368	406	482	482	482	493
Dimensions (H×W×D)	mm	1800x1390x825		1800x1680x825		1800x1880x825	
Ref. Piping	Gas	mm	φ28.60	φ31.75	φ31.75	φ31.75	φ31.75
	Liquid	mm	φ15.88	φ19.05	φ19.05	φ19.05	φ19.05
Connectable Indoor Units	Quantity	pcs	48	52	56	60	64
	Connection Ratio*3	—	30~200%				

*Notes: 1. Rated cooling capacity and rated heating capacity are tested in the following conditions:
Cooling Conditions: indoor air inlet temperature: 27°C DB 19°C WB, outdoor air inlet temperature: 35°C DB, pipe length: 7.5m, pipe height difference: 0m.
Heating Conditions: indoor air inlet temperature: 7°C DB 6°C WB, pipe length: 7.5m, pipe height difference: 0m.
2. The above noise values are measured in the anechoic chamber without reflected echo, therefore the impact of the reflected echo must be included at the scene.
Measurement point: 1m from the service cover surface and 1.5m from the floor level.
3. When the connection ratio is lower than 50% or higher than 130%, please consult our local technical engineers.

Hisense

Qingdao Hisense HVAC Equipment Co., Ltd.
Hisense International Center, Qingdao, China

<http://www.hisensehvac.com> hxhexport@hisense.com [Hisense HVAC](#) [Hisense HVAC](#) [Hisense HVAC](#)

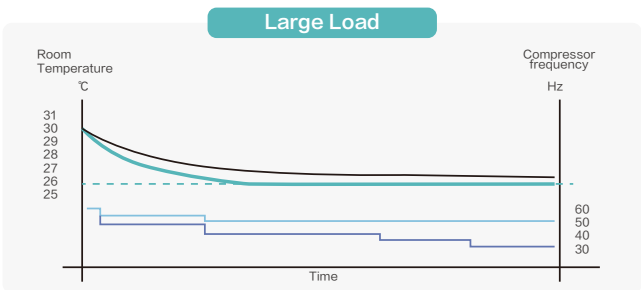
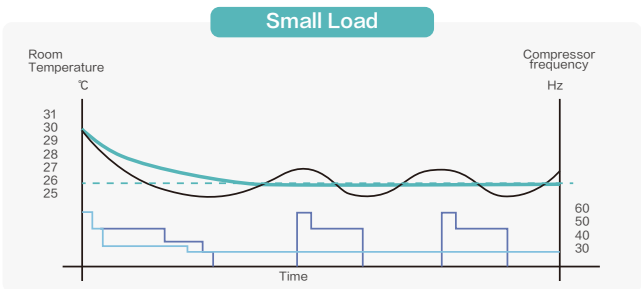
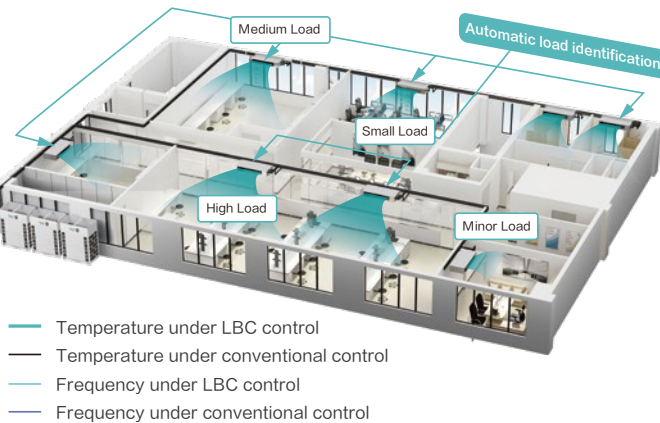
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SUPERIOR COMFORT

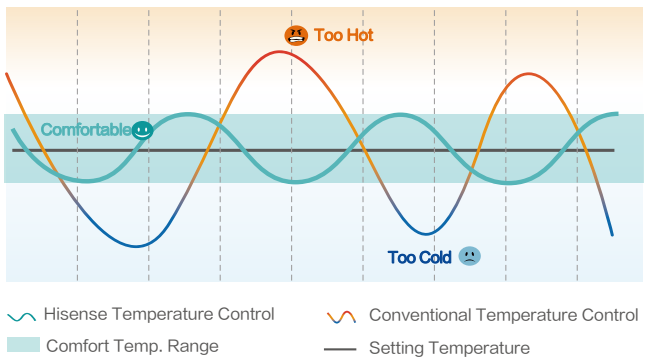
► Load Balancing Control (LBC) Technology

By identifying actual load demand in real-time, it adjusts the air volume and temperature automatically to balance the load output of different rooms. It reduces power consumption by 18% during low loads and speeds up temperature adjustments by 50% during high loads.



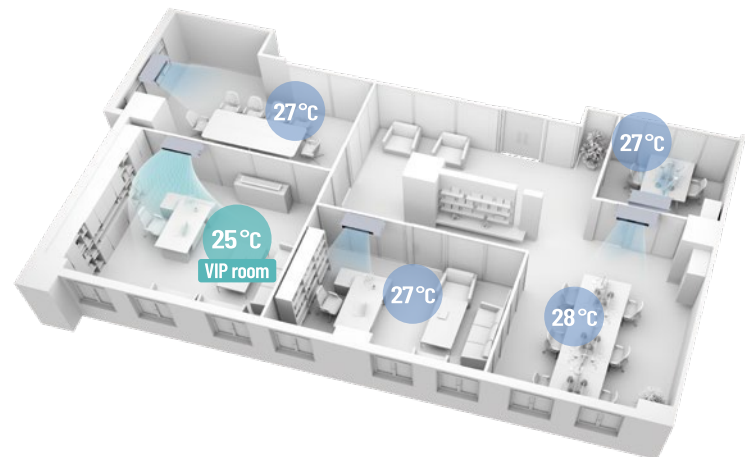
► Precise Temperature Control

There are multiple temperature sensors equipped in the system, which will be very helpful to judge the indoor load more accurately. The 2000-step EEV is specially adopted to ensure precise refrigerant flow adjustment according to the actual load of indoor units, achieving a more comfortable indoor environment with small temperature fluctuation.



► VIP Mode

S5 series boasts a VIP mode that prioritizes the air conditioning needs of specific rooms, ensuring they reach optimal comfort as quickly as possible. There are up to five indoor units that can be set to VIP mode simultaneously.



SMART CONTROL

► Building Management System

A Building Management System (BMS) is an integrated control system designed to monitor and manage facilities within a building, such as HVAC, lighting, power systems, and elevators. It can collect and analyze data in real-time to optimize resource usage, reduce operational costs, and enhance the comfort and safety of the building.



► Hi-Cloud Management

Hi-Cloud Manager is the unified access management of Hisense HVAC intelligent control. Users can log in the control web at anytime and anywhere. Five "Clouds" are embed in the web interface including Hi-Mit Cloud, Smart Touch Cloud, Hi-Dom Cloud, Hi-Checker Cloud, and Distributor Cloud (specially for distributors).



Max Capacity for Single Module

36HP

Max Capacity with 3 Modules Combined

108HP

Max Connectable Indoor Units

128pcs

Max Connection Ratio

200%

Hisense HVAC

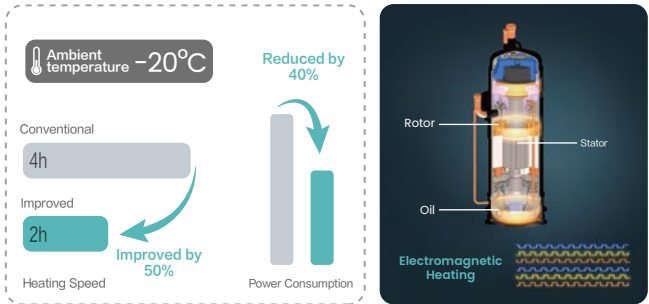
NEW GEN NEW POSSIBILITIES

Hi-FLEXi S5



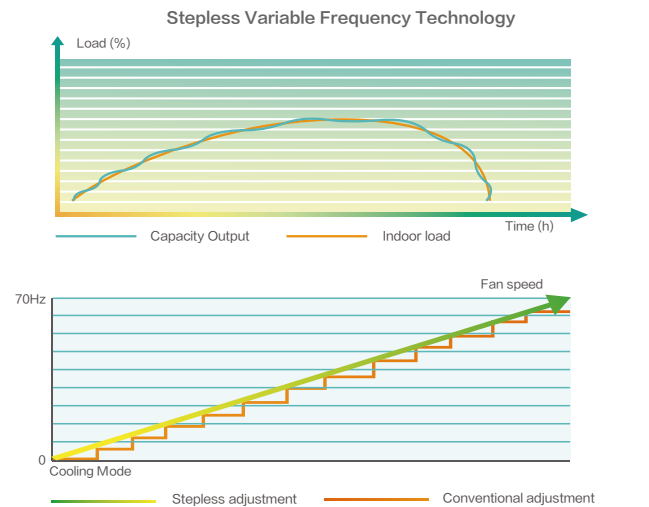
► Electromagnetic Heating Technology

The new generation of compressor adopts electromagnetic heating technology, which directly heat the lubricating oil inside the fixed rotor instead of traditional external electric heating belt. With this technology, power consumption can be reduced by 40% and the heating speed improved by 50%.



► Energy-saving DC Inverter Technology

Hi-Flexi S5 series adopts wide-range, high-precision inverters with an adjustment range from 0 to 480Hz and control accuracy up to 0.01Hz. It allows for more accurate and dynamic distribution of refrigerant flow based on indoor load, with better indoor comfort and higher energy efficiency.



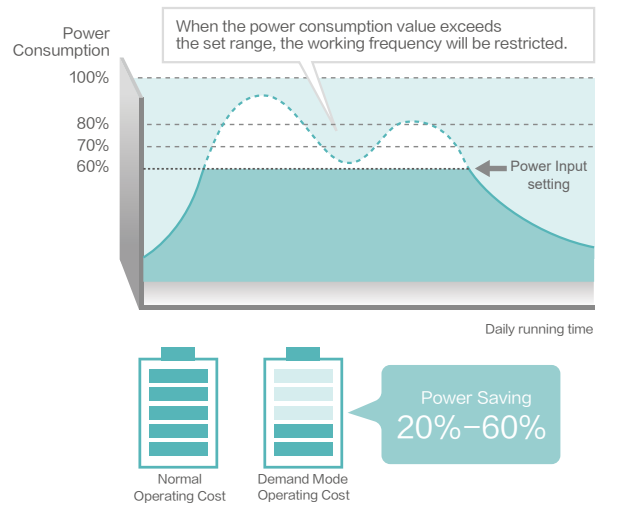
► 2W Standby Mode

During long-term standby periods such as holiday or transition season, traditional devices often result in unnecessary energy waste. Hisense S5 Series tackles this issue with its innovative 2W standby mode and circuit design, which not only saves on your electricity bills but also contributes to environmental protection, making the S5 Series a smart choice for both your wallet and the planet.



► Intelligent Demand Mode

In the intelligent demand mode, S5 series seamlessly adapts to the peak-valley demand for electricity. It automatically optimize the unit's operational efficiency during peak hours and make full use of electricity during off-peak times. This achieves a balance between comfort and energy saving, while meeting all your daily power needs without interruption.



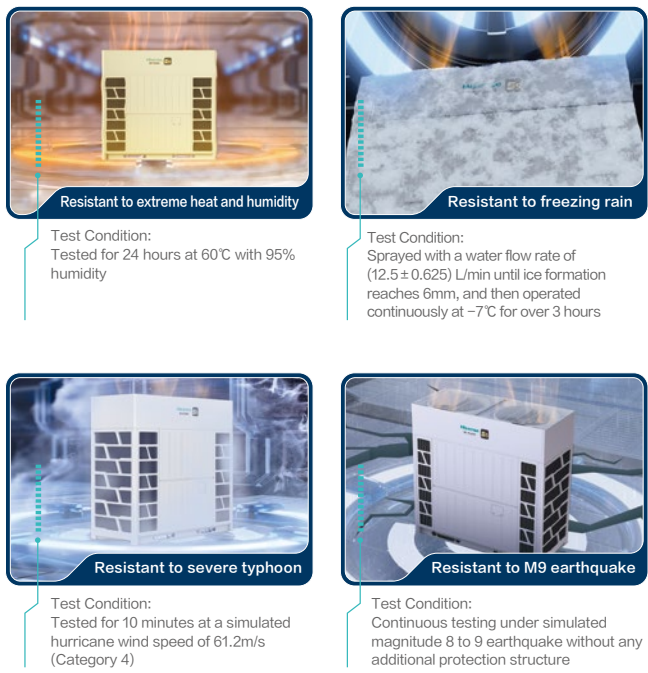
► Wide Operation Range

Hisense Hi-FLEXI S5 series can operate in a wide ambient temperature range as low as -30°C for heating and up to 55°C for cooling, ensuring efficient operation in a variety of extreme weather conditions.



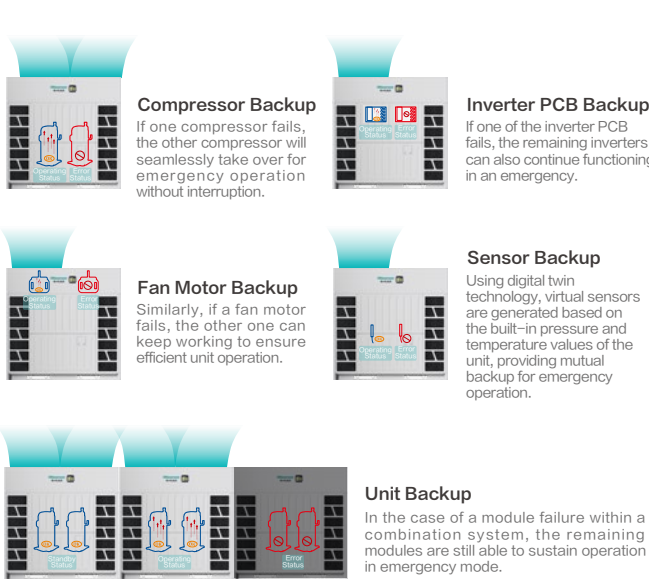
► Resistant to Harsh Environments

The Hi-FLEXI S5 series has been rigorously tested in a variety of harsh environments, including extreme heat and humidity, freezing rain, heavy snowfall, severe typhoons, and even strong earthquakes, etc. These comprehensive tests have consistently proven its exceptional quality and reliable performance, even under the most challenging conditions.



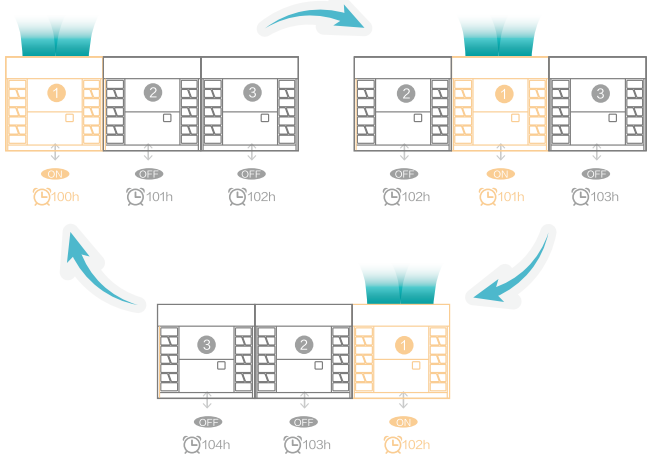
*Note: According to Saffir-Simpson Hurricane Wind Scale.

► Multiple Backup Operation



► Smart Rotation Operation

The operation time of each outdoor unit is smartly balanced within module combinations to prevent any single unit from overworking, thereby extending the overall lifespan of the whole system.



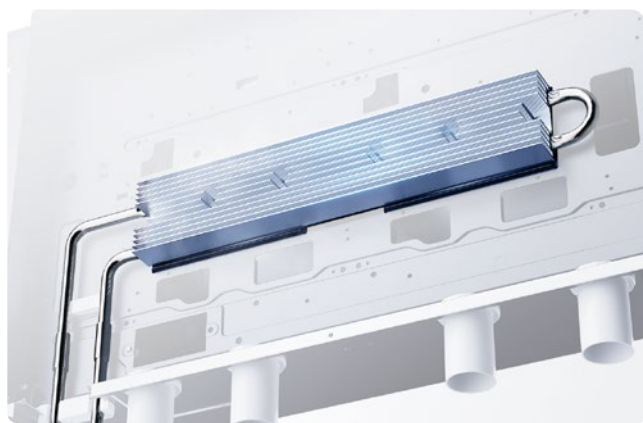
Smaller Size

By adopting miniaturized components and dual-sided layout, the size of electrical box is reduced by 18% to 54% compared to the previous types, making installation more convenient. This design also greatly widens the air duct space, reduces wind resistance, thus improving air circulation rate and increasing heat exchange by 6%.



Micro-channel Refrigerant Cooling PCB

The box is cooled by micro-channel refrigerant cooling technology, with thermal resistance reduced by 20% compared to previous copper-aluminum refrigerant pipes. This innovation lowers the internal temperature of the box by 5°C to 10°C compared to traditional air-cooling methods.



IP55 Fully-sealed

The IP55 electric control box features four layers of sealing to prevent rain, snow, sand, dust, insects and fire from entering. It ensures the durability of electrical components and reliable unit operation.



Ventilation Fans

Additionally, the addition of ventilation fans at the back of the box further aids in efficient heat dissipation and temperature reduction by accelerating internal air flow.



► Space-saving with Reduced Footprint

The footprint of S5 series of 8HP has been reduced by 15% compared to its predecessor with the same capacity, enabling easy transportation via elevators and effortless installation in confined spaces. With a maximum single module capacity up to 36HP, it offers a further 22% space saving compared to previous combination modules, significantly saving valuable floor space.

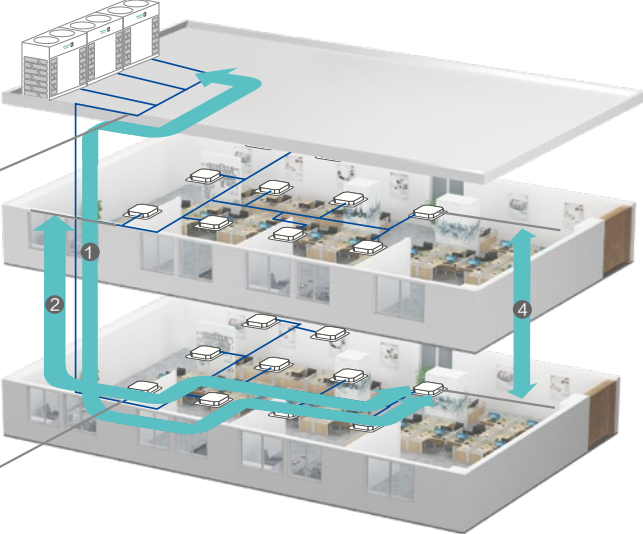


► Flexible Installation with Long Piping

The S5 unit has been optimized for piping, with a maximum total piping length of 1100m and a maximum single pipe length of 220m (equivalent length 260m). Additionally, the maximum connection ratio has also been increased from 30% to 200%* to greatly simplify project design.

Total piping length: 1100m

- Maximum actual length of a single pipe: 220m (equivalent length 260m*)
- Maximum length from the first branch pipe to the farthest indoor unit: 90m
- Maximum height difference between indoor and outdoor units: 110m*
- Maximum height difference between indoor units: 40m*



*Note: For detailed information, please contact Hisense technical engineer.

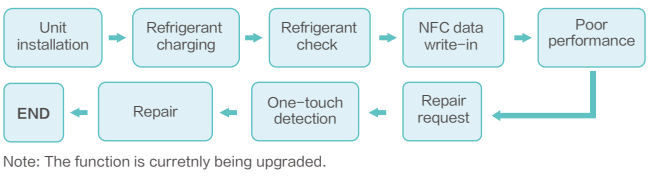
► Automatic Refrigerant Management

◆ Refrigerant self-charging

The S5 series maintains optimal refrigerant level through high-precision automatic refrigerant charging technology, which promotes stable and reliable performance while maximizing energy efficiency. Besides, the process has been greatly simplified compared to conventional manual refrigerant charging, making installation and maintenance easier and more efficient.

◆ Refrigerant detection

Conduct one-touch detection to identify the refrigerant leakage quickly in case of poor cooling and heating performance, so as to improve the maintenance convenience and efficiency.



Note: The function is currently being upgraded.



► Self-diagnosis

Method 1: Alarm codes will flash when an error occurs, which is helpful for service engineer.

Method 2: Operating status and parameters such as history temperature, pressure, compressor frequency, etc. are traceable on controllers, making service maintenance and troubleshooting much easier.

Method 3: Service engineers simply touch their phones to the NFC module to read operational data and diagnose system faults through an app, making service work more convenient and intelligent.

