

NEW GEN NEW POSSIBILITIES

Hi-Smart 

Install Less, Achieve More



RESIDENTIAL AIR CONDITIONING

Max Capacity
for Single Module



10 HP (8 TR)

Max Capacity with
3 Module Combined

16 HP (12.8 TR)

Max Connectable
Indoor Units

42 pcs

Max Connection
Ratio

150 %

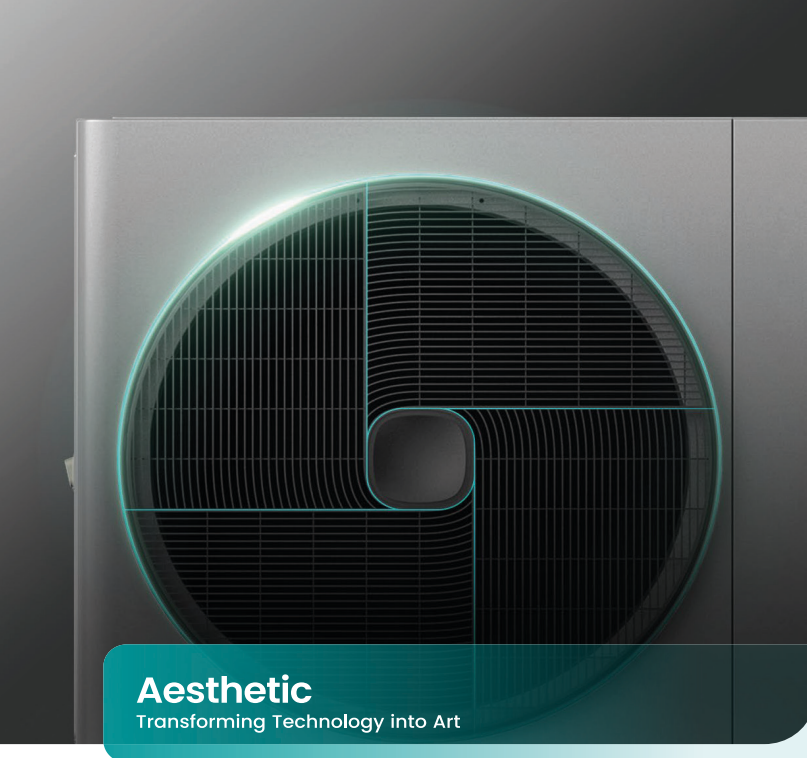


10 HP (8 TR)

18 HP (14.4 TR)

64 pcs

150 %



Aesthetic

Transforming Technology into Art



Sleek Design

The Hi-Smart H5 neo series reflects the company's core values of "Beauty, Symmetry, and Unity" with its design that integrates squares and circles. This geometric fusion represents stability and harmony, demonstrating Hisense's dedication to aesthetic equilibrium. The goal is to craft a visually appealing and engaging experience, transforming technology into an art.



Essential Components for Ultimate Comfort

Integrating vital components—a well-ventilated grille, a fan, and a motor for efficient airflow, precision-engineered heat exchangers, and a powerful compressor—in perfect harmony, the Hi-Smart H5 neo series brings you superior comfort with the technological refinement inherent in Hisense HVAC.

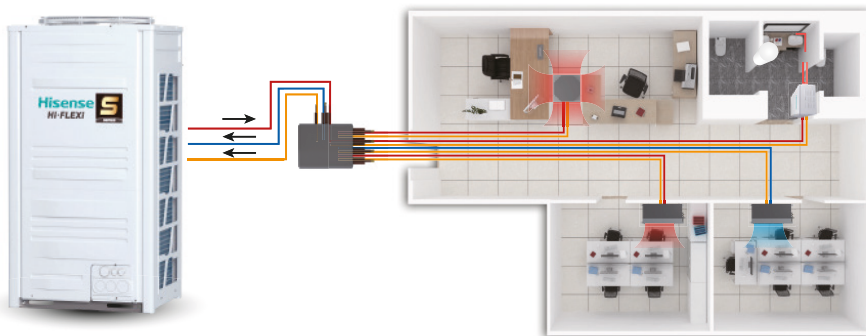
- 1 Grille**
Geometric aesthetics of "Square and Circle"
- 2 Axial Fan**
Wide diameter fan, air volume increased by 44%
- 3 Fan Motor**
Step-less DC motor for precise speed regulation
- 4 Motor bracket**
Strength increased by 1.33 times
- 5 Electrical Box**
Integrated electrical box to achieve stable operation
- 6 Compressor**
Enhanced vapor injection compressor for high efficiency
- 7 Heat Exchanger**
Brand new dark-gray anti-corrosion fins
- 8 Gas-liquid Separator**
maintain the system's efficient operation and balance of oil levels



New Upgraded Switch Box

Switch box defies the complicated piping of 3pipe heat recovery systems and simplifies the system with lesser connections and piping including refrigerant and condensate piping. Now with larger capacity up to 85kW for larger systems and increased up to 16 branch ports for more indoor units connections.

Heating Domination Mode

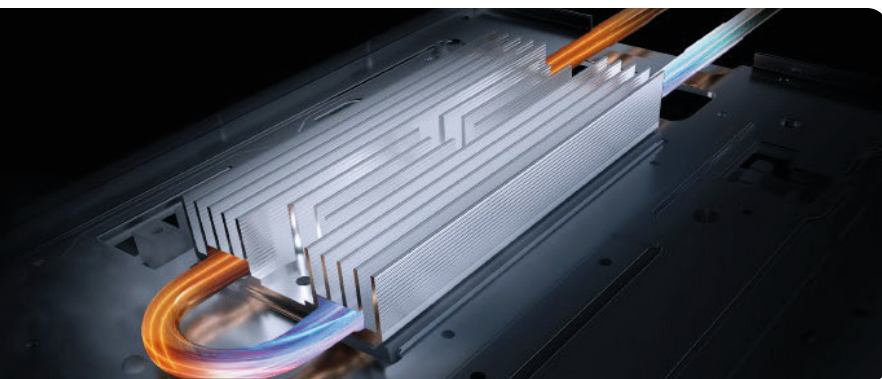


Direct Refrigerant Cooling

This design employs direct refrigerant cooling with corrugated fins, reducing thermal resistance by 20% compared to the previous copper-aluminum cooling, ensuring efficient operation of the inverter module and stable operation of the unit at 55°C high temperatures.

20%

less thermal resistance than
copper-aluminium



Outdoor Unit - Hi-FLEXi S Heat Recovery

HP		10HP	12HP	14HP	16HP	18HP
Model	Model	AVWT-96FKFSA	AVWT-114FKFSA	AVWT-136FKFSA	AVWT-154FKFSA	AVWT-170FKFSA
Power Supply		AC 3Φ, 380~415V/50/60Hz				
Cooling	Capacity	kW	28.0	33.5	40.0	50.0
	Capacity	kBtu/h	95.5	114.3	136.5	170.6
	Power Input	kW	6.75	8.09	10.26	14.04
	EER	kW/kW	4.15	4.14	3.90	3.56
Heating	Capacity(Max/Nom)	kW	31.5 / 28.0	37.5 / 33.5	45.0 / 40.0	56.0 / 50.0
	Capacity	kBtu/h	107.5 / 95.5	128.0 / 114.3	153.5 / 136.5	191.1 / 170.6
	Power Input(Max/Nom)	kW	6.77 / 5.63	9.17 / 7.70	10.82 / 8.89	14.74 / 12.02
	COP(Max)	kW/kW	4.65	4.09	4.16	4.12
Ventilation	Air Flow Rate	m ³ /min	183	183	200	200
	Fan Quantity		1	1	2	2
	Static Pressure	Pa	110	110	110	110
Sound	Sound Pressure Level	dB(A)	60	62	62	62
Compressor	Type	-	Enhanced Vapor Injection Scroll Compressor			
	Compressor Quantity	pcs	1	1	1	2
Refrigerant	Type	-	R410A			
	Pre-charged Quantity	kg	5.90	6.00	8.80	9.20
Weight	Net Weight	kg	227	246	289	349
	Gross Weight	kg	247	266	311	371

Outdoor Unit - H5 neo

HP		10HP	12HP	14HP	16HP
Model		AVW-96HKDHE2	AVW-114HKDHE2	AVW-136HKDHE2	AVW-154HKDHE2
Combination		AVW-96HKDHE2	AVW-114HKDHE2	AVW-136HKDHE2	AVW-154HKDHE2
Power Supply		3Φ, 380~415V 50/60Hz			
Cooling	Capacity	kW	28.0	33.5	45.0
	Capacity	kBtu/h	95.5	114.3	153.5
	Power Input	kW	7.57	9.31	11.43
	EER	kW/kW	3.70	3.60	3.50
	SEER	-	8.57	8.53	7.57
Heating	Capacity (Max./Nom.)	kW	31.5/28.0	37.5/33.5	45.0/40.0
	Capacity	kBtu/h	107.5/95.5	127.9/114.3	153.5/136.5
	Power Input (Max./Nom.)	kW	7.00/5.96	9.15/7.70	10.98/9.30
	COP (Max./Nom.)	kW/kW	4.50/4.70	4.10/4.35	4.10/4.30
	SCOP	-	4.80	4.89	4.75
Air Flow Rate		m ³ /min	212	212	287
Sound Pressure Level (Cooling/Heating)		dB(A)	55/58	55/58	61/62
Refrigerant	Type	-	R32		
	Pre-charged Quantity	kg	4.5	5.7	6.0
Weight	Net Weight	kg	192	193	215
	Gross Weight	kg	210	211	233
Dimensions		Net (H×W×D)	mm		
			1650×1250×440		

Power Load Calculation / Project: X

ITEM	FOR RESIDENTIAL AC	FOR SPLIT AC
Indoor Unit Selection	2.02 x 2 = 4.04 TR 1.5 x 1 = 1.5 TR 1.02 x 1 = 1.02 TR 1.28 x 1 = 1.28 TR Costing (Residential AC) = 11,00,000/-	2.0 x 2 = 4 TR 1.5 x 2 = 3 TR 1.0 x 1 = 1 TR Costing (Split AC) = 6,35,000/-
Total Cooling Capacity	8 TR / Brand: Hisense	8 TR / Brand: Fujitsu General
Electrical Consumption Sub-station Power	7.95 TR x 0.9 kw = 7.16 KW	8 TR x 1.5 kw = 12 KW
Compressor Running time Out of 10 Hours	Running time 6.8 Hours (68% considering)	Running time 8 Hours (80% considering)
Month Ways Pay Back Calculation	7.16 x 6.8 x 8 x 30 = 11685 TK	12 x 8 x 8 x 30 = 23040 TK
For Inverter/Energy Saving 40%	11685 - 40% = 7011 TK	N/A
Yearly Calculation	7011 x 12 = 84132 TK	23040 x 12 = 276480 TK
Life Time (year)	15	7
Yearly Savings	276480 - 84132 = 192348 TK	-