

## Hi-Smart H Series



## Compact Size and Light Weight

Mini VRF H series outdoor units are compact in size for more convenient and flexible space design and installation. It can be hidden in corners of balconies and yards or even on rooftops when necessary. With smaller and slimmer body frame, meaning a lot of unnecessary weights are taken off, which makes installation or positioning simpler.



## Aviation Level Design Of Grilling

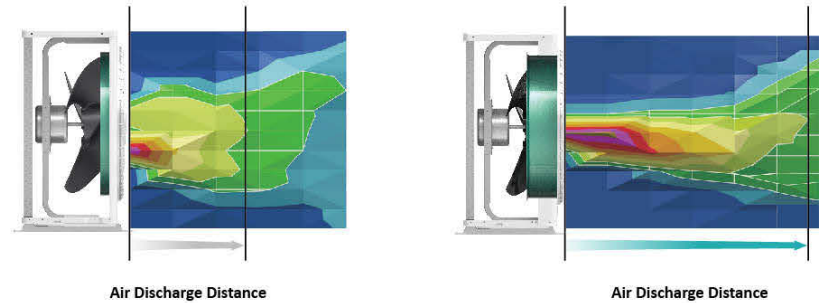
Hisense H series creates a high-quality quiet environment. The design of the grilling follows the design concept of the aircraft engine design, which conforms to the aerodynamics principle. The noise has been greatly reduced. The grilling also increases safety as being a preventative for child figure being injured by the fan blade.



## New Designed Air Channel

An additional air duct like channel surrounding the fan is designed to restrain discharge air from being mixed by itself or surrounding air, causing it to be removed out unsteadily, which would result in poor airflow and reducing overall air-conditioning performance. With the aid of the channel, air is tested to discharge up to 24% further from a conventional unit without the channel, ensuring waste heat from the condensing unit is transferred out efficiently.

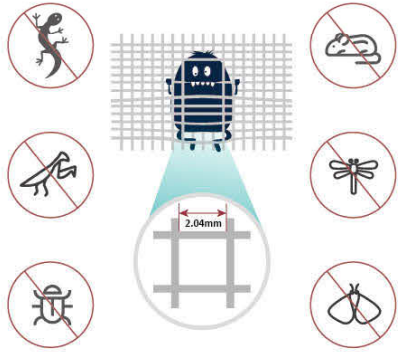
**24%**  
Further Air Discharge



1.5-2m/s    2-2.5m/s    2.5-3m/s

## Insect Protection Design

Electrical and electronic components in the electric box is protected from insects or rat invasions and infestations.



## Flexible Piping Connection

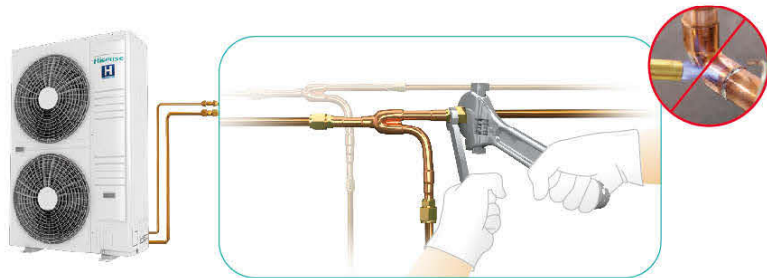
Installation restrictions on site does not stop Hisense mini VRF there with flexible piping directions which includes front, bottom, right, rear connections.



## New Refrigerant Pipe Connection with Flare-nut Branch Pipe

Hisense VRF has newly developed the Flare-nut Branch Pipes, breaking through the common way of connecting refrigerant copper pipes by replacing welding processes with simple and safe flare nuts connections.

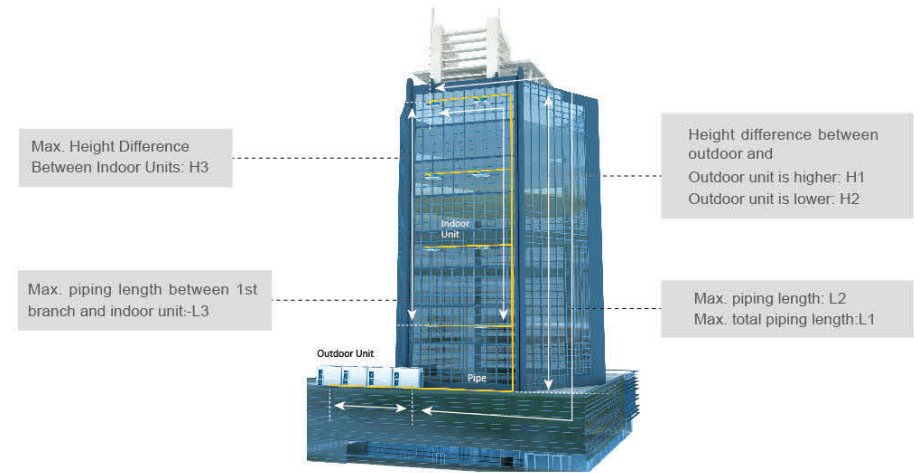
- Convenient and simple installation
- Saving installation time and cost
- Enhanced safety with no fire-involving process
- Preventing leakages due to poor welding
- No hot work permit application is required



## Piping Length

With extra long pipe, the height difference between the indoor unit and outdoor unit is up to 50 meters\*, which makes installation more flexible.

\*Note: For detailed information, please contact Hisense's technical staff.



POWER SUPPLY	AC1Φ 220~240V 50/60Hz		AC3Φ 380~415V 50/60Hz	AC1Φ 220~240V 50/60Hz		AC3Φ 380~415V 50/60Hz	AC3Φ 380~415V 50/60Hz AC3Φ 220V 60Hz	
	3HP	4HP	5HP	4/5/6HP	5/6HP	8/10/12HP		
Picture								
Total piping length-L1	30	40	60	60	120	120	250	
longest length actual-L2	25	25	50	50	75	75	100	
Longest length after first branch-L3	10	15	20	20	30	30	40	
Level difference between indoor and outdoor unit up	Outdoor unit is higher-H1		20	20	20	30	30	50
	Outdoor unit is lower-H2		20	20	20	30	30	40
Level difference between indoor unit-H3	3.5	3.5	3.5	3.5	10	15	15	

## Hi-Smart H Series



HP		3HP	4HP	5HP	5HP
Model		AVW-28HJFH	AVW-34HJFH	AVW-43HJFH	AVW-43HKFH
Power Supply		AC 220V-240V 1Φ 50/60Hz			AC 380V-415V 3Φ 50/60Hz
Cooling	Capacity	kW	8.0	10.0	12.5
		kBtu/h	27.3	34.1	42.7
	Power Input	kW	1.93	2.43	2.98
	EER	kW/kW	4.15	4.27	4.19
Heating	Capacity	kW	9.5	11.2	14.0
		kBtu/h	32.4	38.2	47.8
	Power Input	kW	2.37	3.01	4.15
	COP	kW/kW	4.01	3.72	3.37
Ventilation	Air Flow Rate	m³/min	46.5	69.0	78.0
Sound	Sound Pressure Level (Cooling/Heating)	dB(A)	50/52	53/55	54/57
	Compressor Type	-	Rotary		Scroll
Refrigerant	Type	-	R410A		R410A
	Pre-charged Quantity	kg	2.5	2.8	2.8
Weight	Net Weight	kg	65	73	78
	Gross Weight	kg	72	81	86
Dimensions	External (HxWxD)	mm	800x950x370	800x950x370	800x950x370
	Packing(HxWxD)	mm	930x1025x460	930x1025x460	930x1025x460
Cabinet Color			Ivory White	Ivory White	Ivory White
Ref. Piping	Gas	mm	Φ15.88	Φ15.88	Φ15.88
		inch	5/8	5/8	5/8
	Liquid	mm	Φ9.53	Φ9.53	Φ9.53
		inch	3/8	3/8	3/8
Connectable Indoor Units	Quantity	PC	5	6	8
	Total Capacity	-	50%-125%	50%-125%	50%-125%
Piping Design	Height Difference Between ODU and IDU	m	20	20	20
		m	20	20	20
	Height Difference Between IDUs	m	3.5	3.5	3.5
		m	25	25	50
Operation Range	Cooling	DB	-5°C~46°C	-5°C~46°C	-5°C~46°C
	Heating	WB	-15°C~15.5°C	-15°C~15.5°C	-15°C~15.5°C

## Hi-Smart H Series



HP		4HP	5HP	6HP	5HP	6HP
Model		AVW-38HJFH	AVW-48HJFH	AVW-54HJFH	AVW-48HKFH	AVW-54HKFH
Power Supply		AC 220V-240V 1Φ 50/60Hz				
Cooling	Capacity	kW	11.2	14.0	15.5	14.0
		kBtu/h	38.2	47.8	52.9	47.8
	Power Input	kW	2.60	3.46	4.21	3.92
	EER	kW/kW	4.31	4.05	3.68	3.57
Heating	Capacity	kW	12.5	16.0	18.0	16.0
		kBtu/h	42.7	54.6	61.4	54.6
	Power Input	kW	2.78	3.71	4.47	4.03
	COP	kW/kW	4.50	4.31	4.03	3.97
Ventilation	Air Flow Rate	m³/min	90.0	90.0	100.0	90.0
Sound	Sound Pressure Level (Cooling/Heating)	dB(A)	50/52	52/54	53/55	48/50
	Compressor Type	-	Rotary		Scroll	
Refrigerant	Type	-	R410A	R410A	R410A	R410A
	Pre-charged Quantity	kg	3.8	3.8	4.1	3.6
Weight	Net Weight	kg	93	95	97	103
	Gross Weight	kg	111	111	111	118
Dimensions	External (HxWxD)	mm	1380x950x370	1380x950x370	1380x950x370	1380x950x370
	Packing(HxWxD)	mm	1520x1025x460	1520x1025x460	1520x1025x460	1520x1025x460
Cabinet Color			Ivory White	Ivory White	Ivory White	Ivory White
Ref. Piping	Gas	mm	Φ15.88	Φ15.88	Φ15.88	Φ15.88
		inch	5/8	5/8	5/8	5/8
	Liquid	mm	Φ9.53	Φ9.53	Φ9.53	Φ9.53
		inch	3/8	3/8	3/8	3/8
Connectable Indoor Units	Quantity	PC	9	11	11	11
	Total Capacity	-	50%-150%	50%-150%	50%-150%	50%-150%
Piping Design	Height Difference Between ODU and IDU	m	30	30	30	30
		m	30	30	30	30
	Height Difference Between IDUs	m	10	10	10	10
		m	75	75	75	75
Operation Range	Cooling	DB	-5°C~46°C	-5°C~46°C	-5°C~46°C	-5°C~46°C
	Heating	WB	-20°C~15.5°C	-15°C~15.5°C	-15°C~15.5°C	-15°C~15.5°C

## Hi-Smart H Series



HP		8HP	10HP	12HP	8HP	10HP	12HP
Model		AVW-76HKFH	AVW-96HKFH	AVW-114HKFH	AVW-76H9FH	AVW-96H9FH	AVW-114H9FH
Power Supply		AC 220V-240V 1Φ 50/60Hz			AC 220V 3Φ 60Hz		
Cooling	Capacity	kW 22.4	28.0	33.5	22.4	28.0	33.5
		kBtu/h 76.5	95.6	114.3	76.5	95.6	114.3
	Power Input	kW 6.36	7.80	10.60	6.30	8.30	10.70
	EER	kW/kW 3.52	3.59	3.16	3.56	3.37	3.13
Heating	Capacity	kW 25.0	31.5	37.5	25.0	31.5	37.5
		kBtu/h 85.3	107.5	128	85.3	107.5	128
	Power Input	kW 5.81	7.00	10.11	5.9	7.8	9.9
	COP	kW/kW 4.30	4.50	3.71	4.24	4.04	3.79
Ventilation	Air Flow Rate	m³/min 150.0	163.0	163.0	121.0	150	163
Sound	Sound Pressure Level (Cooling/Heating)	dB(A) 58/60	59/61	59/61	53/55	56/58	56/61
Compressor	Type	Scroll					
Refrigerant	Type	R410A					
	Pre-charged Quantity	kg 7.0	9.0	9.0	5.0	5.5	6.5
Weight	Net Weight	kg 160	170	170	168	168	171
	Gross Weight	kg 179	194	194	179	179	182
Dimensions	External (HxWxD)	mm 1650x1100x390	1650x1100x390	1650x1100x390	1650x1100x390	1650x1100x390	1650x1100x390
	Packing(HxWxD)	mm 1748x1151x500	1748x1151x500	1748x1151x500	1748x1151x500	1748x1151x500	1748x1151x500
Cabinet Color		Ivory White					
Ref. Piping	Gas	mm Φ22.2	Φ25.4	Φ25.4	Φ19.05	Φ22.2	Φ25.4
		inch 7/8	1	1	3/4	7/8	1
	Liquid	mm Φ12.7	Φ12.7	Φ12.7	Φ9.53	Φ12.7	Φ12.7
		inch 1/2	1/2	1/2	3/8	1/2	1/2
Connectable Indoor Units	Quantity	PC 15	17	19	10	10	10
	Total Capacity	- 50%-150%	50%-150%	50%-150%	50%-150%	50%-150%	50%-150%
Piping Design	Height Difference Between ODU and IDU	m 30	30	30	30	30	30
	Height Difference Between IDUs	m 30	30	30	30	30	30
	Max. Piping Length	m 15	15	15	15	15	15
		m 75	75	75	75	75	75
Operation Range	Cooling	DB -5°C~46°C	-5°C~46°C	-5°C~46°C	-5°C~46°C	-5°C~46°C	-5°C~46°C
	Heating	WB -20°C~-15.5°C	-20°C~-15.5°C	-20°C~-15.5°C	-20°C~-15.5°C	-20°C~-15.5°C	-20°C~-15.5°C

## 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: 20°C DB, Outdoor air inlet temperature: 7°C DB 6°C WB, pipe length: 7.5m, pipe height difference : 0m

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.