Hisense VRF

INDOOR UNIT

AIR CONDITIONING SOLUTION

- 4-Way Cassette Type / Mini 4-Way Cassette Type
- 1-Way Cassette Type
- 2-Way Cassette Type
- Console Type
- Ceiling Ducted Type (AC/DC Low-height)
- Ceiling Ducted Type(DC High Static Pressure)
- Ceiling Ducted Type (High/Low Static Pressure)
- Wall Mounted Type
- Ceiling & Floor Type
- Floor Concealed Type
- All Fresh Air Indoor Unit
- Heat Recovery Ventilator
- AHU Connection KIT

Indoor Unit Line-up

HP		0.6	0.8	1.0	1.3	1.5	1.6	1.8	1.9	2.0	2.3	2.5	3.0	3.3	4.0	5.0	6.0	8.0	10.0
kBtu/h		5	7	9	12	14	15	17	18	19	22	24	27	30	38	48	54	76	96
R32 | R410A 4-Way Cassette Type*	New			●	●		●			●	●	●	●	●	●	●	●		
R32 | R410A Mini 4-Way Cassette Type*	New	●	●	●	●		●	●		●									
1-Way Cassette Type			●	●	●	●			●			●							
2-Way Cassette Type			●	●	●	●			●			●	●	●	●	●	●		
Console Type		●	●	●	●		●	●											
Ceiling Ducted Type (AC Low-height)		●	●	●	●		●	●		●	●	●							
R32 | R410A Ceiling Ducted Type* (DC Low-height)	New	●	●	●	●		●			●		●							
Ceiling Ducted Type (DC High Static Pressure)			●	●	●		●			●		●		●	●	●	●	●	●
Ceiling Ducted Type (High Static Pressure)			●	●	●		●			●	●	●	●	●	●	●	●	●	●
Ceiling Ducted Type (Low Static Pressure)			●	●	●		●			●	●	●	●	●	●	●	●	●	●
R32 | R410A Wall Mounted Type*	New	●	●	●	●		●					●	●						
Ceiling & Floor Type								●	●		●	●	●	●	●	●			
Floor Concealed Type				●		●			●			●							

Note: 1. For more details, check each unit's respective pages. 2. * Be compatible with both R32 and R410a.

Indoor Unit Feature Overview

Type	Accessories									
	Drain Pump (built-in)	Drain Pump (external)	3D Airflow Panel	Filter	Humidity Sensor	AirPure Kit	Motion Sensor	Hi-Motion	Outlet Air Temp Sensor	Float Switch
4-Way Cassette Type	●	×	×	●	○	○	○	○	●	●
Mini 4-Way Cassette Type	●	×	×	●	○	○	○	○	×	●
1-Way Cassette Type	●	×	×	●	×	×	×	○	●	●
2-Way Cassette Type	●	×	×	●	×	×	×	○	●	●
Console Type	×	○	×	●	○	○	×	○	×	×
Ceiling Ducted Type (AC Low-height)	●	×	○	●	○	○	×	○	×	●
Ceiling Ducted Type (DC Low-height)	●	×	×	●	○	○	×	○	×	●
Ceiling Ducted Type (DC High Static Pressure) AVD-07~AVD-54	○	○	×	●	○	○	×	○	●	●
Ceiling Ducted Type (DC High Static Pressure) AVD-76 & AVD-96	○	○	×	○	○	○	×	○	●	●
Ceiling Ducted Type (High Static Pressure) AVD-07~AVD-54	○	○	×	●	○	○	×	○	×	●
Ceiling Ducted Type (High Static Pressure) AVD-76 & AVD-96	×	○	×	○	×	×	×	○	●	●
Ceiling Ducted Type (Low Static Pressure) AVD-07~AVD-54	○	○	×	●	○	○	×	○	×	●
Ceiling Ducted Type (Low Static Pressure) AVD-76 & AVD-96	×	○	×	○	×	×	×	○	●	●
Wall Mounted Type	×	○	×	●	○	×	×	○	●	×
Ceiling & Floor Type	×	○	×	●	×	×	×	○	●	×
Floor Concealed Type	×	○	×	×	×	×	×	○	●	×

Remarks: Standard: ● Optional: ○ Incompatible: ×

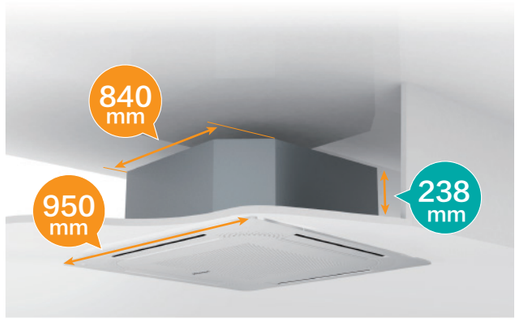
Type	Features										
	Dry Contact Input	Windows Linkage	Dry Contact Output	Fresh Air Intake	Sleep	Quiet	ECO	Individual Louver Control	Breeze Mode	Self Cleaning	Auto Fan Speed
4-Way Cassette Type	●	×	●	●	●	●	●	●	●	×	×
Mini 4-Way Cassette Type	●	×	●	●	●	●	●	●	●	×	×
1-Way Cassette Type	●	×	●	●	●	●	●	×	×	×	●
2-Way Cassette Type	●	×	●	●	●	×	×	●	×	×	●
Console Type	●	×	●	●	●	●	●	×	×	×	×
Ceiling Ducted Type (AC Low-height)	●	●	●	●	●	●	●	×	×	×	×
Ceiling Ducted Type (DC Low-height)	●	●	●	●	●	●	●	×	×	×	×
Ceiling Ducted Type (DC High Static Pressure) AVD-07~AVD-54	●	●	●	●	●	●	●	×	×	●	●
Ceiling Ducted Type (DC High Static Pressure) AVD-76 & AVD-96	●	●	●	×	●	●	●	×	×	×	●
Ceiling Ducted Type (High Static Pressure) AVD-07~AVD-54	●	●	●	●	×	×	●	×	×	×	×
Ceiling Ducted Type (High Static Pressure) AVD-76 & AVD-96	●	×	●	×	●	×	●	×	×	×	×
Ceiling Ducted Type (Low Static Pressure) AVD-07~AVD-54	●	●	●	●	×	×	●	×	×	×	×
Ceiling Ducted Type (Low Static Pressure) AVD-76 & AVD-96	●	×	●	×	●	×	●	×	×	×	×
Wall Mounted Type	●	●	●	×	●	●	●	×	×	●	●
Ceiling & Floor Type	●	×	●	×	×	×	×	×	×	×	×
Floor Concealed Type	●	×	●	×	●	●	●	×	×	×	●

Remarks: Standard: ● Optional: ○ Incompatible: ×

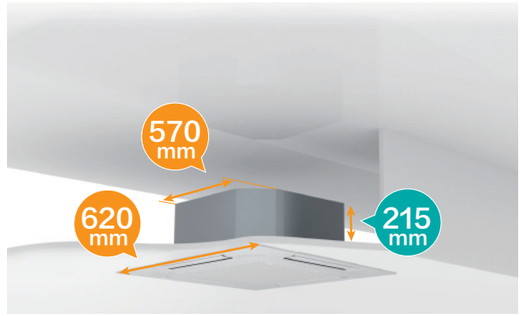
4-Way Cassette Type
Mini 4-Way Cassette Type

Compact and Classy Design

The 4-way cassette is as slim as 238mm, and the mini 4-way cassettes are only 215mm, making them suitable for narrow ceiling spaces. And the newly designed panel seamlessly integrates with indoor aesthetics.



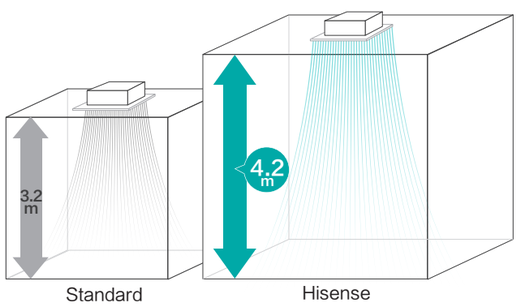
4-way Cassette Type



Mini 4-way Cassette Type

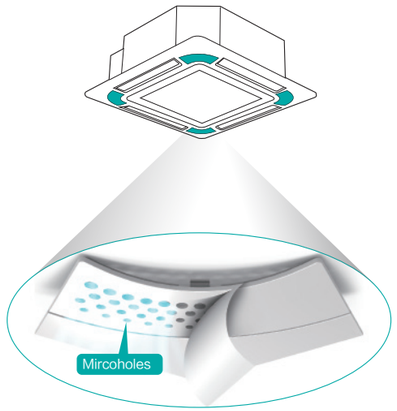
Higher Installation

Air from the cassette can flow down from ceiling heights as high as 4.2m. And it's suitable for working with motion sensors.



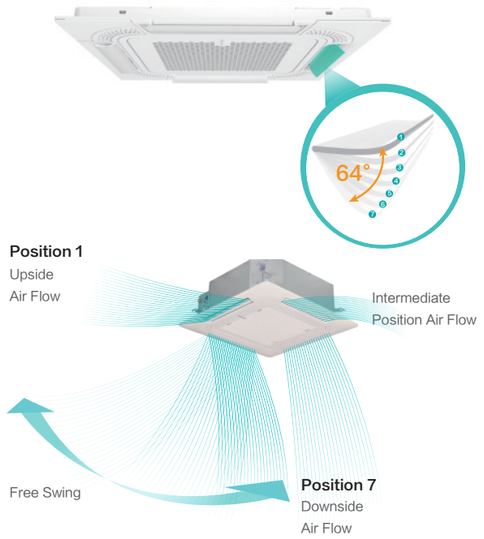
Breeze Mode

Under the new designed breeze mode, the cold air is blown out from the microholes in the panel, and the unit is working in a mute mode, which can avoid blowing air directly on people and achieve more even and comfortable airflow.



Individual Louvers Control

4-way cassettes louvers are now capable of individual control to freely choose how you want your AC unit supplies air according to different needs, applications and installation layout. Each louvers have 7 angle settings and maximum angle reach at 64°.



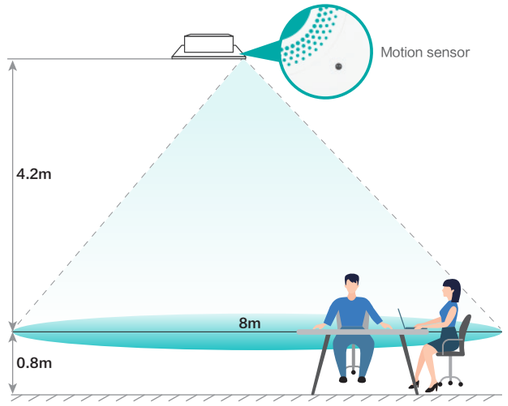
Healthy Air

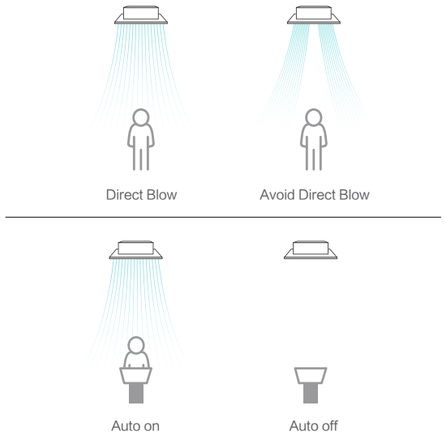
The cassette unit is featured with self-cleaning. By simply pressing a button on the controller, the unit can be refreshed, saving any labor costs. Moreover, it can achieve high temperature sterilization at 56℃, ensuring clean and healthy airflow.



Motion Sensor

The sensor senses the presence of people to automatically turn the cassette unit on or off and whether to direct airflow towards or avoiding humans depend settings set on the controller. During crowded times, the setting temperature is automatically lowered down and vise versa.





R32 | R410A

4-Way Cassette Type



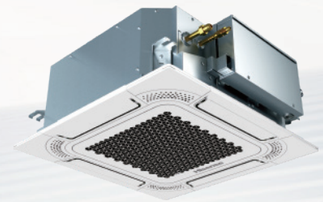
Model			AVBC-09 HJDBA	AVBC-12 HJDBA	AVBC-15 HJDBA	AVBC-19 HJDBA	AVBC-22 HJDBA	AVBC-24 HJDBA	AVBC-27 HJDBA	AVBC-30 HJDBA	AVBC-38 HJDBA	AVBC-48 HJDBA	AVBC-54 HJDBA
Power supply			AC 1Φ, 220V~240V/50Hz/60Hz										
Capacity	Cooling	kW	2.8	3.6	4.5	5.6	6.3	7.1	8.0	9.0	11.2	14.0	16.0
		Btu/h	9,600	12,300	15,300	19,100	21,500	24,200	27,300	30,700	38,200	47,800	54,600
	Heating	kW	3.2	4.0	5.0	6.3	7.1	8.0	9.0	10.0	12.5	16.0	18.0
		Btu/h	10,900	13,700	17,100	21,500	24,200	27,300	30,700	34,100	42,700	54,600	61,400
Power Input	Cooling	W	20	30	40	50	50	60	70	70	80	130	130
	Heating	W	20	30	40	50	50	60	70	70	80	130	130
Sound Pressure		dB(A)	30/28/28/ 27/26/26	32/29/29/ 28/27/26	33/31/29/ 29/27/26	34/31/30/ 28/28/26	36/33/32/ 31/29/28	36/33/32/ 31/29/28	37/36/35/ 33/31/30	37/36/35/ 33/31/30	42/40/38/ 36/34/33	46/44/40/ 38/36/34	46/44/41/ 40/38/36
Air Flow Rate		m^3/min	15.0/12.8/ 12.0/10.8/ 10.0/8.8	17.0/14.0/ 12.8/11.8/ 10.8/9.1	19.0/15.0/ 13.9/12.6/ 11.4/10.5	19.0/15.0/ 13.9/12.6/ 11.8/10.5	26.0/20.0/ 18.3/17.0/ 15.1/13.0	27.0/21.1/ 19.1/18.0/ 15.8/14.7	25.0/21.1/ 19.6/17.9/ 16.1/14.7	25.0/22.3/ 20.3/18.3/ 16.9/15.3	31.0/29.5/ 28.7/26.0/ 23.5/20.5	37.0/33.5/ 29.6/27.2/ 24.2/22.4	37.0/34.0/ 30.7/28.9/ 25.6/23.8
Piping	Connection Type	–	Flare-nut Connection(with Flare Nuts)										
	Liquid	mm	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ9.53	Φ9.53	Φ9.53	Φ9.53	Φ9.53	Φ9.53
		inch	(1/4)	(1/4)	(1/4)	(1/4)	(1/4)	(3/8)	(3/8)	(3/8)	(3/8)	(3/8)	(3/8)
	Gas	mm	Φ12.7	Φ12.7	Φ12.7	Φ12.7	Φ12.7	Φ15.88	Φ15.88	Φ15.88	Φ15.88	Φ15.88	Φ15.88
		inch	(1/2)	(1/2)	(1/2)	(1/2)	(1/2)	(5/8)	(5/8)	(5/8)	(5/8)	(5/8)	(5/8)
	Condensate Drain	–	O.D. 32										
Weight	Net Weight	kg	20	20	20	20	21	21	23	23	26	26	26
	Gross Weight	kg	24	24	24	24	25	25	27	27	31	31	31
Dimensions	External	H mm	238	238	238	238	238	238	238	238	288	288	288
		W mm	840	840	840	840	840	840	840	840	840	840	840
		D mm	840	840	840	840	840	840	840	840	840	840	840
	Packaging	H mm	292	292	292	292	292	292	292	292	342	342	342
		W mm	945	945	945	945	945	945	945	945	945	945	945
		D mm	945	945	945	945	945	945	945	945	945	945	945
Decoration Panel	Model	–	HPE-GNK1										
	Color	–	Neutral White										
	Body Dimensions	H mm	47	47	47	47	47	47	47	47	47	47	47
		W mm	950	950	950	950	950	950	950	950	950	950	950
		D mm	950	950	950	950	950	950	950	950	950	950	950
	Packaging Dimensions	H mm	100	100	100	100	100	100	100	100	100	100	100
		W mm	1022	1022	1022	1022	1022	1022	1022	1022	1022	1022	1022
		D mm	1022	1022	1022	1022	1022	1022	1022	1022	1022	1022	1022
	Net Weight	kg	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7
	Gross Weight	kg	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0

Notes:

1. The nominal cooling capacity and heating capacity are based on following conditions:
   Cooling Operation Conditions
   Indoor Air Inlet Temperature: 27℃ DB (80°F DB), 19.0℃ WB (66.2°F WB)
   Outdoor Air Inlet Temperature: 35℃ DB (95°F DB)
   Piping Length: 7.5 Meters Piping Lift: 0 Meter
   Heating Operation Conditions
   Indoor Air Inlet Temperature: 20℃ DB (68°F DB)
   Outdoor Air Inlet Temperature: 7℃ DB (45°FDB), 6℃ 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.

R32 | R410A

Mini 4-Way Cassette Type



Model			AVC-05HJDBA	AVC-07HJDBA	AVC-09HJDBA	AVC-12HJDBA	AVC-15HJDBA	AVC-17HJDBA	AVC-19HJDBA
Power supply			AC 1Φ, 220V~240V/50Hz/60Hz						
Capacity	Cooling	kW	1.5	2.2	2.8	3.6	4.5	5.0	5.6
		Btu/h	5,100	7,500	9,600	12,300	15,300	17,000	19,100
	Heating	kW	2.0	2.5	3.3	4.2	5.0	5.6	6.3
		Btu/h	6,800	8,500	11,200	14,300	17,000	19,100	21,500
Power Input	Cooling	W	14	14	14	16	22	30	40
	Heating	W	14	14	14	16	22	30	40
Sound Pressure		dB(A)	30/29/28/26	30/29/28/26	32/30/28/26	34/32/29/26	38/36/31/28	42/39/36/31	45/42/38/34
Air Flow Rate		m^3/min	7.2/6.5/6.2/5.6	7.2/6.5/6.2/5.6	7.8/7.2/6.5/5.8	7.8/7.2/6.5/5.8	9.3/8.7/7.1/6.7	11.0/9.5/8.7/7.1	12.5/10.8/9.3/8.0
Piping	Connection Type	–	Flare-nut Connection(with Flare Nuts)						
	Liquid	mm	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ6.35
		inch	(1/4)	(1/4)	(1/4)	(1/4)	(1/4)	(1/4)	(1/4)
	Gas	mm	Φ12.7	Φ12.7	Φ12.7	Φ12.7	Φ12.7	Φ12.7	Φ12.7
		inch	(1/2)	(1/2)	(1/2)	(1/2)	(1/2)	(1/2)	(1/2)
	Condensate Drain	–	O.D. 32						
Weight	Net Weight	kg	14.5	14.5	14.8	14.8	15.8	15.8	15.8
	Gross Weight	kg	17.3	17.3	17.6	17.6	18.6	18.6	18.6
Dimensions	External	H mm	215	215	215	215	215	215	215
		W mm	570	570	570	570	570	570	570
		D mm	570	570	570	570	570	570	570
	Packaging	H mm	292	292	292	292	292	292	292
		W mm	730	730	730	730	730	730	730
		D mm	668	668	668	668	668	668	668
Decoration Panel	Model	–	HPE-DNK1						
	Color	–	Neutral White						
	Body Dimensions	H mm	37	37	37	37	37	37	37
		W mm	620	620	620	620	620	620	620
		D mm	620	620	620	620	620	620	620
	Packaging Dimensions	H mm	115	115	115	115	115	115	115
		W mm	690	690	690	690	690	690	690
		D mm	680	680	680	680	680	680	680
	Net Weight	kg	2.7	2.7	2.7	2.7	2.7	2.7	2.7
	Gross Weight	kg	4.0	4.0	4.0	4.0	4.0	4.0	4.0

Notes:

1. The nominal cooling capacity and heating capacity are based on following conditions:
   Cooling Operation Conditions
   Indoor Air Inlet Temperature: 27℃ DB (80°F DB), 19.0℃ WB (66.2°F WB)
   Outdoor Air Inlet Temperature: 35℃ DB (95°F DB)
   Piping Length: 7.5 Meters Piping Lift: 0 Meter
   Heating Operation Conditions
   Indoor Air Inlet Temperature: 20℃ DB (68°F DB)
   Outdoor Air Inlet Temperature: 7℃ DB (45°F DB), 6℃ 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.

1-Way Cassette Type

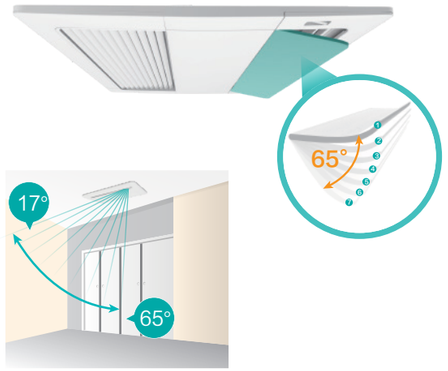
Chic Aesthetics

Inspired from ceiling concealed ducted units and integrated with the design of cassette units to present 1 way cassette. High class appearance blends into common white plaster ceilings and practical solution for cornered floor layouts, hotel rooms and residential applications.



Even Air Supply

Louvers are consist of horizontal and vertical flaps to supply air evenly to the edges of any rooms. Wider opening angle from 17° to 65° supplies air further and lower down to floor needed during heating modes.



Space Saving

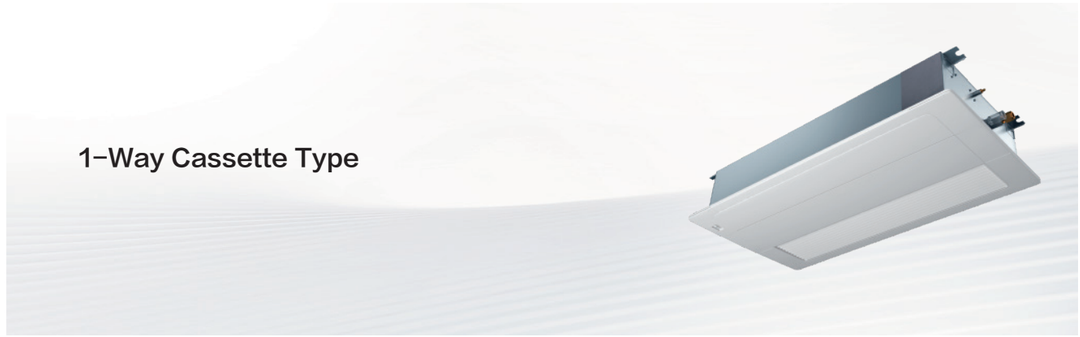
Slim body height of 192mm fits in limited ceiling spaces commonly seen in budget hotels and residential applications.



Easier Maintain

The electric box of the cassette is designed and placed beneath the panel. When operate on PCB, it just needs to open the panel and the cover of box. It's easy to take the service, maintenance and commissioning.





Model				AVY-07UXJSJA	AVY-09UXJSJA	AVY-12UXJSJA	AVY-14UXJSJA	AVY-18UXJSKA	AVY-24UXJSKA
Power Supply				AC 1Φ, 220-240V/50Hz/60Hz					
Capacity	Cooling		kW	2.2	2.8	3.6	4.5	5.6	7.1
			Btu/h	7,500	9,600	12,300	15,400	19,100	24,200
	Heating		kW	2.5	3.2	4.0	5.0	6.3	8.0
			Btu/h	8,500	10,900	13,600	17,100	21,500	27,300
Power Input	Cooling		W	14	14	24	34	34	74
	Heating		W	14	24	34	44	44	94
Sound Pressure			dB(A)	33/32/31/30/29/28	35/34/32/31/29/28	40/36/35/33/30/29	40/36/35/33/30/29	41/39/36/35/33/31	48/46/43/40/37/33
Airflow Rate			m^3/min	6.2/5.9/5.6/ 5.1/4.8/4.6	6.6/6.2/5.6/ 5.1/4.8/4.6	8.3/7.3/6.8/ 6.2/5.6/5.1	8.3/7.3/6.8/ 6.2/5.6/5.1	12.1/9.9/8.8/ 8.2/7.8/6.6	15.6/12.6/11.2/ 9.9/8.4/7.1
Piping	Connection Type		-	Flare-nut Connection (with Flare Nuts)					
	Liquid		mm	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ9.53
			inch	1/4	1/4	1/4	1/4	1/4	3/8
	Gas		mm	Φ12.70	Φ12.70	Φ12.70	Φ12.70	Φ12.70	Φ15.88
			inch	1/2	1/2	1/2	1/2	1/2	5/8
	Condensate Drain		mm	I.D.32					
Weight	Net Weight		kg	19	19	20	20	24	24
	Gross Weight		kg	23	23	24	24	29	29
Dimensions	External	H	mm	192	192	192	192	192	192
		W	mm	910	910	910	910	1180	1180
		D	mm	470	470	470	470	470	470
	Packaging	H	mm	268	268	268	268	268	268
		W	mm	1136	1136	1136	1136	1406	1406
		D	mm	574	574	574	574	574	574
Decoration Panel	Model		-	HP-D-NA	HP-D-NA	HP-D-NA	HP-D-NA	HP-E-NA	HP-E-NA
	Panel Colour		-	Neutral White					
	Body Dimensions	H	mm	55	55	55	55	55	55
		W	mm	1100	1100	1100	1100	1370	1370
		D	mm	550	550	550	550	550	550
	Packaging Dimensions	H	mm	130	130	130	130	130	130
		W	mm	1160	1160	1160	1160	1430	1430
		D	mm	610	610	610	610	610	610
	Net Weight		kg	5	5	5	5	6	6
	Gross Weight		kg	8	8	8	8	10	10

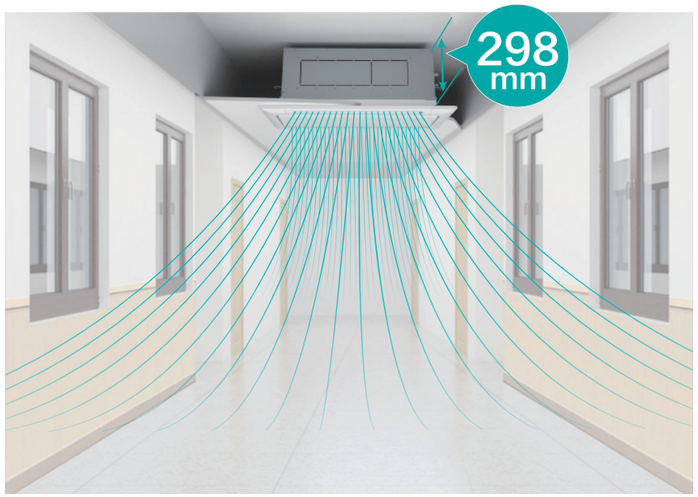
Notes:

1. The nominal cooling capacity is based on the following conditions:
   Indoor Air Inlet Temperature: 27℃ DB (80°F DB), 19.0℃ WB (66.2°F WB)
   Outdoor Air Inlet Temperature: 35℃ DB (95°F DB)
   Piping Length: 7.5 Meters Piping Lift: 0 Meter
2. The sound pressure level is based on the following conditions: 1.0m beneath the unit, 1.0m from Discharge Grille. The above data was measured in an anechoic chamber so that the reflected sound should be taken into consideration in the field. When bottom air inlet is adopted, the sound pressure will increase according to factors such as installation mode and the room structure.

2-Way Cassette Type

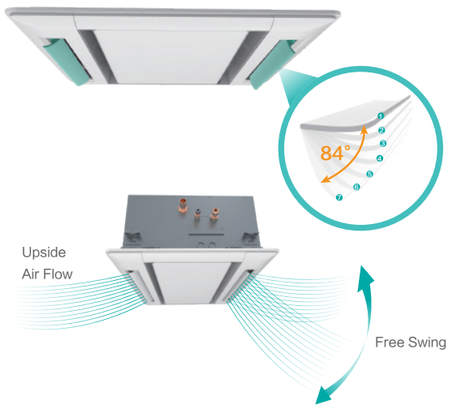
Compact and Classy Design

The slim structure of the cassette having height as low as 298mm can be installed in ceiling spaces with a minimum of 310mm. Narrow corridors or zoned spaces are best fitted with 2 way cassette due to its compact design.



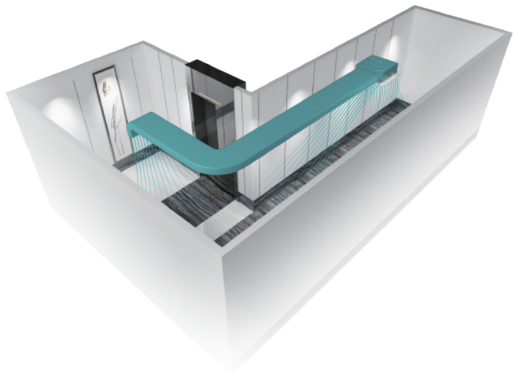
Independent Louvers Control

Each louver's opening angles are controllable individually with a total of 7 choices, with opening angle from 27° to 84° to cover high ceiling narrow long corridors needs and effective warm air supply during winter seasons.



Branch Discharge Option

In irregular room layouts, branch discharge could come in handy by extending air distribution area to the most awkward corners without additional indoor units.





Model				AVL-07 UXJSGA	AVL-09 UXJSGA	AVL-12 UXJSGA	AVL-14 UXJSGA	AVL-18 UXJSGA	AVL-24 UXJSGA	AVL-27 UXJSGA	AVL-30 UXJSHA	AVL-38 UXJSHA	AVL-48 UXJSHA	AVL-54 UXJSHA
Power Supply				AC 1Φ, 220~240V/50Hz/60Hz										
Capacity	Cooling		kW	2.2	2.8	3.6	4.3	5.6	7.1	8.4	9.0	11.2	14.0	16.0
			Btu/h	7,500	9,600	12,300	14,700	19,100	24,200	28,700	30,700	38,200	47,800	54,600
	Heating		kW	2.8	3.3	4.0	4.9	6.5	8.0	9.0	10.0	13.0	16.0	18.0
			Btu/h	9,600	11,300	13,600	16,700	22,200	27,300	30,700	34,100	44,400	54,600	61,400
Power Input	Cooling		W	14	14	14	24	34	44	64	74	84	104	114
	Heating		W	14	14	14	24	34	44	64	74	84	104	114
Sound Pressure			dB(A)	32/30/ 29/27	33/30/ 29/28	34/31/ 30/28	40/37/ 34/32	42/39/ 36/33	45/42/ 40/36	47/44/ 40/36	49/46/ 42/37	46/44/ 40/38	48/45/ 42/38	49/46/ 43/40
Airflow Rate			m^3/min	10.0/8.5/ 7.2/6.0	11.0/9.4/ 8.2/6.6	12.0/10.5/ 8.9/7.5	15.0/13.2/ 11.5/9.9	17.0/14.9/ 13.0/11.2	19.0/16.4/ 14.3/12.3	21.0/18.4/ 15.6/12.6	22.0/19.3/ 16.3/13.1	30.0/26.4/ 23.1/19.8	35.0/30.8/ 26.9/21.1	37.0/32.5/ 28.4/24.1
Piping	Connection Type		–	Flare-nut Connection (with Flare Nuts)										
	Liquid		mm	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ9.53	Φ9.53	Φ9.53	Φ9.53	Φ9.53	Φ9.53
			inch	1/4	1/4	1/4	1/4	1/4	3/8	3/8	3/8	3/8	3/8	3/8
	Gas		mm	Φ12.70	Φ12.70	Φ12.70	Φ12.70	Φ12.70	Φ15.88	Φ15.88	Φ15.88	Φ15.88	Φ15.88	Φ15.88
			inch	1/2	1/2	1/2	1/2	1/2	5/8	5/8	5/8	5/8	5/8	5/8
	Condensate Drain		mm	I.D.32										
Weight	Net Weight		kg	22	22	22	24	24	24	24	24	39	39	39
	Gross Weight		kg	28	28	28	30	30	30	30	30	47	47	47
Dimensions	External	H	mm	298	298	298	298	298	298	298	298	298	298	298
		W	mm	860	860	860	860	860	860	860	860	1420	1420	1420
		D	mm	630	630	630	630	630	630	630	630	630	630	630
	Packaging	H	mm	350	350	350	350	350	350	350	350	350	350	350
		W	mm	1070	1070	1070	1070	1070	1070	1070	1070	1630	1630	1630
		D	mm	710	710	710	710	710	710	710	710	710	710	710
Decoration Panel	Model		–	HP-C-NA	HP-C-NA	HP-C-NA	HP-C-NA	HP-C-NA	HP-C-NA	HP-C-NA	HP-C-NA	HP-F-NA	HP-F-NA	HP-F-NA
	Panel Colour		–	Neutral White										
	Body Dimensions	H	mm	30	30	30	30	30	30	30	30	30	30	30
		W	mm	1100	1100	1100	1100	1100	1100	1100	1100	1660	1660	1660
		D	mm	710	710	710	710	710	710	710	710	710	710	710
	Packaging Dimensions	H	mm	160	160	160	160	160	160	160	160	160	160	160
		W	mm	1170	1170	1170	1170	1170	1170	1170	1170	1710	1710	1710
		D	mm	740	740	740	740	740	740	740	740	740	740	740
	Net Weight		kg	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	10.5	10.5	10.5
	Gross Weight		kg	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3	17.8	17.8	17.8

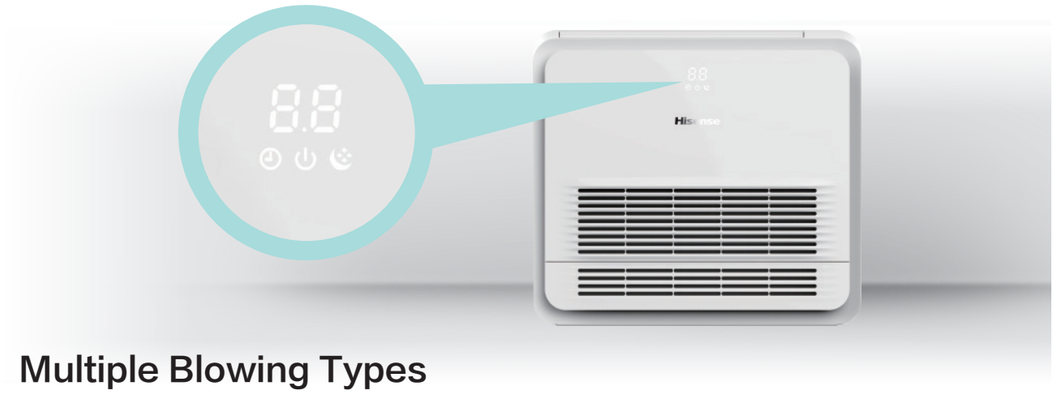
Notes:

1. The nominal cooling capacity is based on the following conditions:
   Indoor Air Inlet Temperature: 27℃ DB (80°F DB), 19.0℃ WB (66.2°F WB)
   Outdoor Air Inlet Temperature: 35℃ DB (95°F DB)
   Piping Length: 7.5 Meters Piping Lift: 0 Meter
2. The sound pressure level is based on the following conditions: 1.5m beneath the unit.
   The above data was measured in an anechoic chamber so that the reflected sound should be taken into consideration in the field.

Console Type

Stylish Design

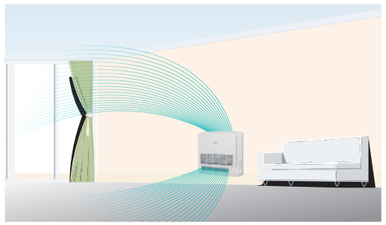
With smooth white cover, LED shown and temperature display, the console unit is an super stylish air-conditioning, which is suitable for the residential or commercial applications which need an unit installed on or close to the floor.

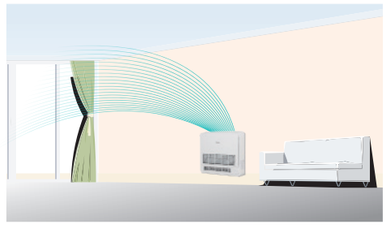


Multiple Blowing Types

Cooling Mode

The unit adopts the stereo cooling mode that can reach the setting temperature rapidly.

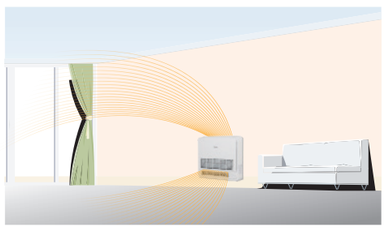


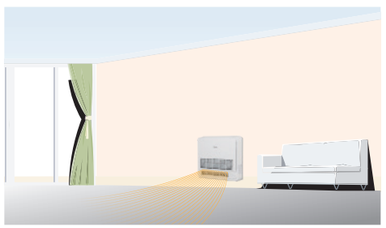


*Note: During cooling mode, the lower air louver will close automatically after the indoor unit operates in low fan speed mode for an hour. Otherwise it will keep open.

Heating Mode

Air supply through the below louver achieves floor heating effect and increases the comfortability.





*Note: In the Eco mode, when the indoor return air temp. is close to the setting temp., the upper air deflector is automatically closed, and the lower air outlet mode is activated.

Flexible Installation Options

The unit can stand directly on the floor, or be hanged on the wall.
According to the interior decoration style, the machine can choose surface mounted, embedded mounted, concealed mounted.



Standing on the floor



Hanging on the wall



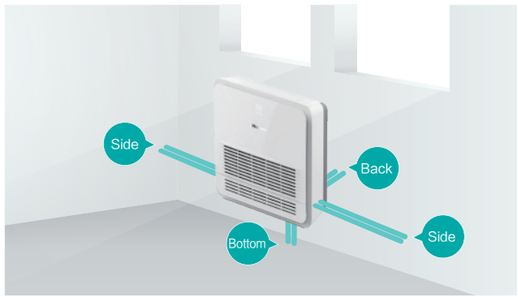
Surface mounted

Embedded mounted

Concealed mounted

Flexible Piping Connection

Both refrigerant and drainage pipings are freely to connect in any direction including two sides (L or R) and bottom and back. An additional direction to the back of the unit suitable for pipes which passing through walls.



Console Type

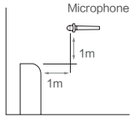


Model			AVK-05HJFCAA	AVK-07HJFCAA	AVK-09HJFCAA	AVK-12HJFCAA	AVK-15HJFCAA	AVK-17HJFCAA
Power Supply			AC 1Φ, 220V~240V/50Hz/60Hz					
Capacity	Cooling	kW	1.5	2.2	2.8	3.6	4.5	5.0
		Btu/h	5,100	7,500	9,600	12,300	15,300	17,000
	Heating	kW	2.0	2.5	3.3	4.2	5.0	5.6
		Btu/h	6,800	8,500	11,200	14,300	17,000	19,100
Power Input	Cooling	W	10	11	12	14	18	23
	Heating	W	10	11	12	14	18	23
Sound Pressure		dB(A)	32/30/29/28/26/24	34/32/31/29/27/26	36/35/32/31/29/27	39/36/34/31/29/27	41/39/37/35/33/32	44/43/41/39/37/36
Airflow Rate		m^3/min	6.0/5.7/5.3/ 5.1/4.7/4.5	7.4/7.0/6.4/ 6.0/5.6/5.3	8.0/7.4/7.0/ 6.4/6.0/5.6	8.2/7.6/6.8/ 6.2/5.7/5.3	9.0/8.5/7.8/ 7.2/6.6/6.4	10.1/9.7/9.0/ 8.5/7.9/7.3
Panel Colour		–	Pure White	Pure White	Pure White	Pure White	Pure White	Pure White
Piping	Connection Type	–	Flare-nut Connection (with Flare Nuts)					
	Liquid	mm	Φ 6.35	Φ 6.35	Φ 6.35	Φ 6.35	Φ 6.35	Φ 6.35
		inch	1/4	1/4	1/4	1/4	1/4	1/4
	Gas	mm	Φ 12.70	Φ 12.70	Φ 12.70	Φ 12.70	Φ 12.70	Φ 12.70
		inch	1/2	1/2	1/2	1/2	1/2	1/2
	Condensate Drain	mm	O.D.18					
Weight	Net Weight	kg	16.1	16.1	16.1	17.4	17.4	17.4
	Gross Weight	kg	20.6	21.1	21.1	21.5	21.5	21.5
Dimensions	External	H mm	630	630	630	630	630	630
		W mm	700	700	700	700	700	700
		D mm	225	225	225	225	225	225
	Packaging	H mm	725	725	725	725	725	725
		W mm	790	790	790	790	790	790
		D mm	315	315	315	315	315	315

Notes:

1. The nominal cooling capacity and heating capacity are based on the following conditions:
   Cooling Operation Conditions
   Indoor Air Inlet Temperature: 27℃ DB (80°F DB), 19.0℃ WB (66.2°F WB)
   Outdoor Air Inlet Temperature: 35℃ DB (95°F DB)
   Piping Length: 7.5 Meters Piping Lift: 0 Meter
   Heating Operation Conditions
   Indoor Air Inlet Temperature: 20℃ DB (68°F DB)
   Outdoor Air Inlet Temperature: 7℃ DB (45°F DB), 6℃ WB (43°F WB)

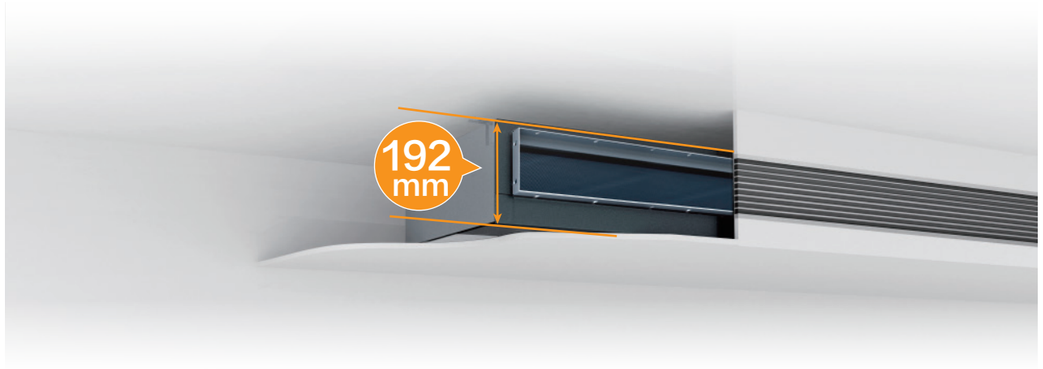
2. The sound pressure level is based on following conditions:
   It is measured in anechoic room. Operation noise differs with operation and ambient conditions.
   Location of Microphone:



Ceiling Ducted Type (AC/DC Low Height)

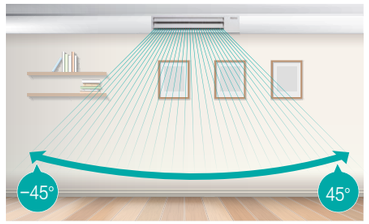
Space Saving

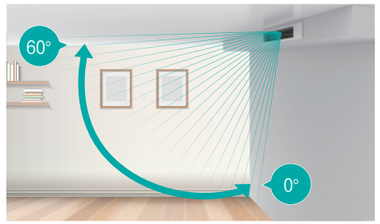
Concealed AC/DC Low Height Ducted unit is as slim as 192mm, fitting into the narrowest ceiling spaces. Save ceiling spaces for higher room height without compromising user's comfort and satisfaction.

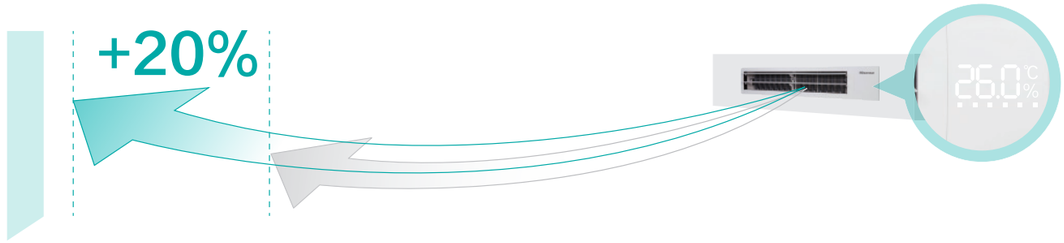


3D Air Flow

Classy air discharge louver panel with LED temperature and humidity display is available as an optional accessory for the low-height ceiling ducted units. The 3D louvers on the panel offer wide air flow coverage to keep every corners of your room cool or warm in any seasons of the year.







Ceiling Ducted Type (AC Low Height)



Model			AVE-05 HCFRL	AVE-07 HCFRL	AVE-09 HCFRL	AVE-12 HCFRL	AVE-15 HCFRL	AVE-17 HCFRL	AVE-19 HCFRL	AVE-22 HCFRL	AVE-24 HCFRL
Power Supply			AC 1Φ, 220V~240V/50Hz								
Capacity	Cooling	kW	1.7	2.2	2.8	3.6	4.5	5.0	5.6	6.3	7.1
		Btu/h	5,800	7,500	9,600	12,300	15,300	17,100	19,100	21,500	24,200
	Heating	kW	1.9	2.5	3.2	4.0	5.0	5.6	6.3	7.1	8.0
		Btu/h	6,500	8,500	11,300	13,600	17,100	19,100	21,500	24,200	27,300
Power Input	Cooling	W	50	50	70	70	80	80	100	120	120
	Heating	W	50	50	70	70	80	80	100	120	120
Sound Pressure		dB(A)	29/24/22	29/24/22	35/25/23	35/25/23	36/25/23	36/25/23	35/25/23	39/26/25	39/26/25
Airflow Rate		m^3/min	7/5.5/4.7	7/5.5/4.7	9/5.7/4.8	9/5.7/4.8	12/6.3/5.5	12/6.3/5.5	13.5/8/7.7	18/9.3/8.7	18/9.3/8.7
External Static Pressure		Pa	10(30)	10(30)	10(30)	10(30)	10(30)	10(30)	10(30)	10(30)	10(30)
Piping	Connection Type	–	Flare-nut Connection (with Flare Nuts)								
	Liquid	mm	Φ 6.35	Φ 6.35	Φ 6.35	Φ 6.35	Φ 6.35	Φ 6.35	Φ 6.35	Φ 9.53	Φ 9.53
		inch	1/4	1/4	1/4	1/4	1/4	1/4	1/4	3/8	3/8
	Gas	mm	Φ 12.70	Φ 12.70	Φ 12.70	Φ 12.70	Φ 12.70	Φ 12.70	Φ 15.88	Φ 15.88	Φ 15.88
		inch	1/2	1/2	1/2	1/2	1/2	1/2	5/8	5/8	5/8
	Condensate Drain	mm	I.D.32								
Weight	Net Weight	kg	16	16	17	17	21	21	25	26	26
	Gross Weight	kg	19	19	20	20	24	24	29	29	29
Dimensions	External	H mm	192	192	192	192	192	192	192	192	192
		W mm	700	700	700	700	910	910	1180	1180	1180
		D mm	447	447	447	447	447	447	447	447	447
	Packaging	H mm	270	270	270	270	270	270	270	270	270
		W mm	925	925	925	925	1136	1136	1406	1406	1406
		D mm	574	574	574	574	574	574	574	574	574

Notes:

1. The nominal cooling capacity and heating capacity are based on the following conditions:
   Cooling Operation Conditions
   Indoor Air Inlet Temperature: 27℃ DB (80°F DB), 19.0℃ WB (66.2°F WB)
   Outdoor Air Inlet Temperature: 35℃ DB (95°F DB)
   Piping Length: 7.5 Meters Piping Lift: 0 Meter
   Heating Operation Conditions
   Indoor Air Inlet Temperature: 20℃ DB (68°F DB)
   Outdoor Air Inlet Temperature: 7℃ DB (45°F DB), 6℃ WB (43°F WB)
2. The sound pressure level is based on the following conditions: 1.5m beneath the unit.
   The above data was measured in an anechoic chamber so that the reflected sound should be taken into consideration in the field.

R32 | R410A

Ceiling Ducted Type (DC Low Height)



Model			AVE-05HJDDH	AVE-07HJDDH	AVE-09HJDDH	AVE-12HJDDH	AVE-15HJDDH	AVE-19HJDDH	AVE-24HJDDH
Power supply			AC 1Φ, 220V~240V/50Hz/60Hz						
Capacity	Cooling	kW	1.7	2.2	2.8	3.6	4.5	5.6	7.1
		Btu/h	5,800	7,500	9,600	12,300	15,300	19,100	24,200
	Heating	kW	1.9	2.5	3.2	4.0	5.0	6.3	8.0
		Btu/h	6,500	8,500	11,300	13,600	17,100	21,500	27,300
Power Input	Cooling	W	30	30	50	50	60	60	90
	Heating	W	30	30	50	50	60	60	90
Sound Pressure		dB(A)	28/27/26/24/23/21	28/27/26/24/23/21	35/32/32/30/26/23	35/32/32/30/26/23	35/32/32/30/26/23	35/32/30/28/25/23	38/36/35/33/31/24
Air Flow Rate		m^3/min	7.0/6.5/6.1/ 5.7/5/3/4.8	7.0/6.5/6.1/ 5.7/5/3/4.8	9.0/8.1/7.3/ 6.7/5.9/5.2	9.0/8.1/7.3/6.7/ 5.9/5.2	12.0/10.8/9.4/ 8.1/6.8/5.5	13.5/12.5/11.2/ 10.0/8.8/7.7	18.0/16.1/14.3/ 12.3/10.5/8.7
External Static Pressure		Pa	10(10~30~50)						
Piping	Connection Type	–	Flare-nut Connection(with Flare Nuts)						
	Liquid	mm	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ9.53
		inch	1/4	1/4	1/4	1/4	1/4	1/4	3/8
	Gas	mm	Φ12.7	Φ12.7	Φ12.7	Φ12.7	Φ12.7	Φ15.88	Φ15.88
		inch	1/2	1/2	1/2	1/2	1/2	5/8	5/8
	Condensate Drain	–	I.D.32						
Weight	Net Weight	kg	16	16	17	17	20	24	24
	Gross Weight	kg	19	19	20	20	24	29	29
Dimensions	External Dimension	H mm	192	192	192	192	192	192	192
		W mm	700	700	700	700	910	1180	1180
		D mm	447	447	447	447	447	447	447
	Packaging Dimensions	H mm	270	270	270	270	270	270	270
		W mm	925	925	925	925	1136	1406	1406
		D mm	574	574	574	574	574	574	574

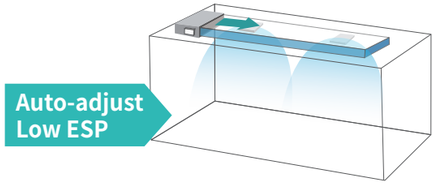
Notes:

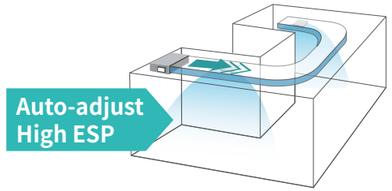
1. The nominal cooling capacity and heating capacity are based on the following conditions:
   Cooling Operation Conditions
   Indoor Air Inlet Temperature: 27℃ DB (80°F DB), 19.0℃ WB (66.2°F WB)
   Outdoor Air Inlet Temperature: 35℃ DB (95°F DB)
   Piping Length: 7.5 Meters Piping Lift: 0 Meter
   Heating Operation Conditions
   Indoor Air Inlet Temperature: 20℃ DB (68°F DB)
   Outdoor Air Inlet Temperature: 7℃ DB (45°F DB), 6℃ WB (43°F WB)
2. The sound pressure level is based on the following conditions: 1.5m beneath the unit.
   The above data was measured in an anechoic chamber so that the reflected sound should be taken into consideration in the field.

Ceiling Ducted Type(DC High Static Pressure)

Auto-adjust External Static Pressure

After installation, the actual duct resistance frequently differ from the initially calculated, causing the actual air flow too low or too high. The auto-adjust ESP function can effectively solve this problem. At the initial commission, the system can automatically select the most appropriate ESP value according to the actual duct resistance.

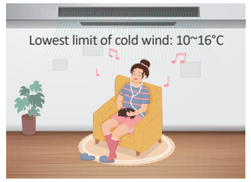




Cold Wind Limit Setting

Thanks to the Cold Wind Limit Setting function, the lowest limit of the outlet air temperature can be set in the range of 10~16℃, which can ensure that the actual outlet temperature will never be lower than the set value, and avoid uncomfortable feeling caused by the direct blowing of cold wind.





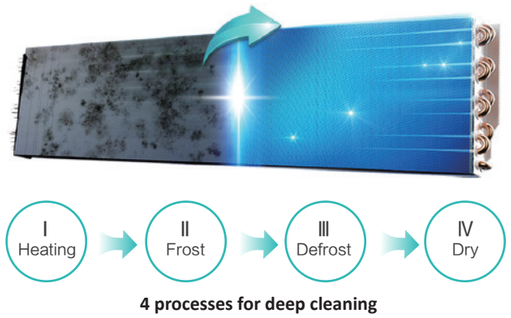
New Improved Bendable Filters

Filters that comes with the units are now optimized to be bendable by improving the material's malleability to improve installation flexibility in narrow ceiling height and restricted spaces.

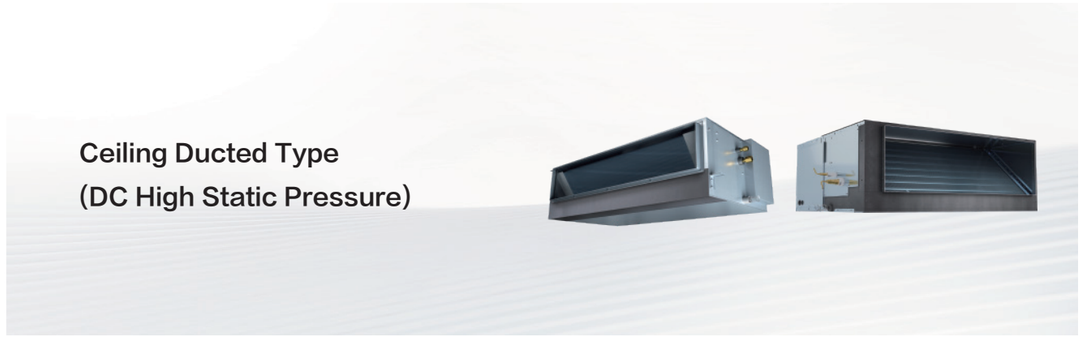


Self-cleaning Function

Featured with self-cleaning technology, the evaporator can be self-cleaned automatically just with the tap of a button in the controller, which is very convenient and saves the cost of manual cleaning, while ensuing a clean environment.



4 processes for deep cleaning



Model				AVD-07 HJFH	AVD-09 HJFH	AVD-12 HJFH	AVD-15 HJFH	AVD-19 HJFH	AVD-24 HJFH	AVD-24 HJFH1	AVD-30 HJFH	AVD-38 HJFH	AVD-48 HJFH	AVD-54 HJFH	AVD-76 HJFH	AVD-96 HJFH
Power Supply				AC 1Φ, 220V~240V/50Hz/60Hz												
Capacity	Cooling		kW	2.2	2.8	3.6	4.5	5.6	7.1	7.1	9.0	11.2	14.0	16.0	22.4	28.0
			Btu/h	7,500	9,600	12,300	15,400	19,100	24,200	24,200	30,800	38,000	48,000	54,500	76,500	95,600
	Heating		kW	2.5	3.2	4.0	4.6	6.3	8.0	8.0	10.0	12.5	16.0	18.0	25.0	31.5
			Btu/h	8,500	10,900	13,700	17,100	21,600	27,400	27,400	34,200	42,500	54,500	61,500	85,300	107,500
Power Input	Cooling		W	40	40	55	55	55	82	74	100	132	180	223	610	830
	Heating		W	40	40	55	55	55	82	74	100	132	180	223	610	830
Sound Pressure Level			dB(A)	30/27/23/ 21/20/19	30/27/23/ 21/20/19	35/33/32/ 28/26/24	35/33/32/ 28/26/24	33/30/27/ 25/23/22	36/34/31/ 28/24/22	33/31/28/ 25/23/21	34/32/30/ 28/25/22	37/35/31/ 29/26/23	38/36/34/ 31/29/26	41/38/35/ 33/30/27	49/48/47/ 46/45/44	53/52/50/ 49/47/45
Airflow Rate			m^3/min	9/8/6.8/ 6.3/5.8/5.3	9/8/6.8/ 6.3/5.8/5.3	12/11/10/ 9/8/7.2	12/11/10/ 9/8/7.2	14.5/13/11.5/ 10.5/9.5/8.7	19/17/15/ 13/11/9.5	20.6/19/17/ 15/13.8/12.5	25/23/21/ 19/17/15	28/25/23/ 21/19/17	35.5/32.5/29.5/ 26.5/23.5/20.5	39/35.5/31/ 26.5/23.5/21.8	57/54/52/ 51/49/48	72/68/65/ 61/58/50
External Static Pressure			Pa	30 (30/40/50/60/70/80/90/100/110/120/130/140/150)						50 (50/60/70/80/90/100/110/120/130/140/150/160/170/180/190/200)					150(50~250)	150(50~250)
Piping	Connection Type		–	Flare-Nut Connection(With Flare Nut)											Brazing	
	Liquid		mm	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ9.53	Φ9.53	Φ9.53	Φ9.53	Φ9.53	Φ9.53	Φ9.53	Φ9.53
			inch	1/4	1/4	1/4	1/4	1/4	3/8	3/8	3/8	3/8	3/8	3/8	3/8	3/8
	Gas		mm	Φ12.7	Φ12.7	Φ12.7	Φ12.7	Φ15.88	Φ15.88	Φ15.88	Φ15.88	Φ15.88	Φ15.88	Φ15.88	Φ22.2 (Φ19.05*1)	Φ22.2
			inch	1/2	1/2	1/2	1/2	5/8	5/8	5/8	5/8	5/8	5/8	5/8	7/8 (3/4*1)	7/8
	Condensate Drain		–	I.D. 32												
Weight	Net Weight		kg	23	23	24	24	30	30	40	40	40	49	49	104	104
	Gross Weight		kg	29	29	29	29	37	37	48	48	48	57	57	125	125
Dimensions	External	H	mm	270	270	270	270	270	270	300	300	300	300	300	470	470
		W	mm	650+75	650+75	650+75	650+75	900+75	900+75	1100+75	1100+75	1100+75	1400+75	1400+75	1250	1250
		D	mm	720	720	720	720	720	720	800	800	800	800	800	1120	1120
	Packing	H	mm	385	385	385	385	385	385	415	415	415	415	415	546	546
		W	mm	895	895	895	895	1140	1140	1345	1345	1345	1640	1640	1466	1466
		D	mm	870	870	870	870	870	870	950	950	950	950	950	1345	1345

Notes:

1. The nominal cooling capacity and heating capacity are based on the 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)
   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)
   Piping Length: 7.5 Meters Piping Lift: 0 Meter
2. The sound pressure level is based on following conditions.
   1.5m below the unit; With 2.0m discharge duct and 1.0m return duct
   The above data were measured in an anechoic chamber so that reflected sound should be taken into consideration in the field.
3. *1: The size of AVD-76* series gas pipe is Φ22.2mm when leaving the factory, and the diameter can be changed to 19.05mm after welding the adapter pipe.

Ceiling Ducted Type (High/Low Static Pressure)

Flexible Air Duct Layout

High static pressure facilitates extensive ducts and air outlets network, effectively sends air-conditioned air to every corner of the room.



New Improved Bendable Filters

Standard filters that comes with high/low static pressure ceiling ducted type are now optimized to be bendable by improving the material's malleability to improve installation flexibility in narrow ceiling height and restricted spaces.



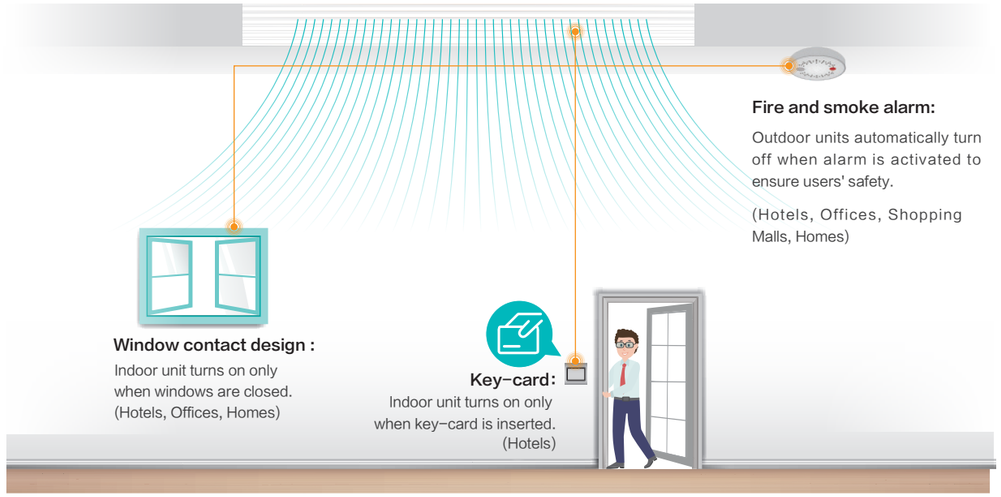
Fresh Air Introducing

There is a fresh air duct opening reserved in the unit for 10% free fresh air introductory directly from outdoor, providing fresh air to the indoor continuously.



Various Device Connection Options

Third party devices to control the on-off air conditioners is possible with dry contact connections to the Indoor unit. Devices like room key card, window contact and fire alarms can be connected simultaneously.

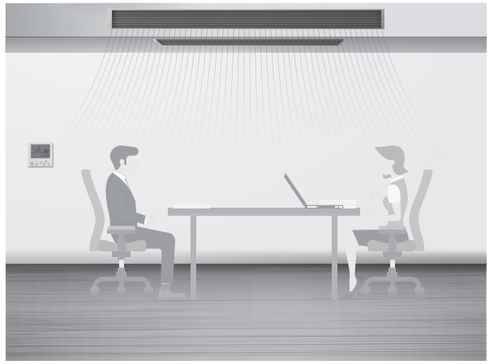


Smart & Precise Temperature Control

To prevent the human height area of the room cools or warms to user's ideal temperature setting. Two Temperature Sensor Control Technology is integrated into the unit whereby the controller, and return section consist of built in temperature sensors to send real-time signals to the unit for a more precise supplying temperature.



Hisense VRF



Conventional

Ceiling Ducted Type (High Static Pressure)



Model			AVD-07 HCFCH	AVD-09 HCFCH	AVD-12H CFCH	AVD-15H CFCH	AVD-19 HCFCH	AVD-22 HCFCH	AVD-24 HCFCH	AVD-27 HCFCH	AVD-30 HCFCH	AVD-38 HCFCH	AVD-48 HCFCH	AVD-54 HCFCH	AVD-76U X6SEH*1	AVD-96U X6SFH*1
Power Supply			AC 1Φ, 220V~240V/50Hz												AC 3Φ, 380~415V/50Hz	
Model			AVD-07 H3FCH	AVD-09 H3FCH	AVD-12 H3FCH	AVD-15 H3FCH	AVD-19 H3FCH	AVD-22 H3FCH	AVD-24 H3FCH	AVD-27 H3FCH	AVD-30 H3FCH	AVD-38 H3FCH	AVD-48 H3FCH	AVD-54 H3FCH	–	–
Power Supply			AC 1Φ, 208~230V/60Hz													
Capacity	Cooling	kW	2.2	2.8	3.6	4.5	5.6	6.3	7.1	8.0	9.0	11.2	14.0	16.0	22.4	28.0
		Btu/h	7,500	9,600	12,300	15,400	19,100	21,600	24,200	27,400	30,800	38,000	48,000	54,500	76,500	95,600
	Heating	kW	2.5	3.2	4.0	5.0	6.3	7.1	8.0	9.0	10.0	12.5	16.0	18.0	25.0	31.5
		Btu/h	8,500	10,900	13,700	17,100	21,600	24,200	27,400	30,800	34,200	42,500	54,500	61,500	85,300	107,500
Power Input	Cooling	kW	0.10(0.13*2)	0.10(0.13*2)	0.13(0.16*2)	0.13(0.16*2)	0.14(0.21*2)	0.19(0.24*2)	0.19(0.24*2)	0.25(0.34*2)	0.25(0.34*2)	0.25(0.34*2)	0.34(0.45*2)	0.43(0.59*2)	1.08	1.34
	Heating	kW	0.10(0.13*2)	0.10(0.13*2)	0.13(0.16*2)	0.13(0.16*2)	0.14(0.21*2)	0.19(0.24*2)	0.19(0.24*2)	0.25(0.34*2)	0.25(0.34*2)	0.25(0.34*2)	0.34(0.45*2)	0.43(0.59*2)	1.08	1.34
Sound Pressure	220~240V/50Hz	dB(A)	32/27/25	32/27/25	35/32/26	35/32/26	36/35/30	39/32/25	39/32/25	42/39/34	42/39/34	42/39/34	43/40/35	46/40/35	52	54
	208V/60Hz	dB(A)	33/28/24	33/28/24	37/34/29	37/34/29	37/35/29	39/32/25	39/32/25	42/38/33	42/38/33	42/38/33	44/39/34	45/40/34	52	54
	230V/60Hz	dB(A)	37/33/28	37/33/28	40/38/33	40/38/33	42/40/34	43/37/30	43/37/30	44/42/37	44/42/37	44/42/37	47/43/38	46/42/38	52	54
Air Flow(Hi/Me/Lo)		m^3/min	9/7/6	9/7/6	12/10/8.5	12/10/8.5	15/13/10	19/14/10	19/14/10	28/24/19.5	28/24/19.5	28/24/19.5	35.5/29/24	39/31/24	58	77.5
External Static Pressure	220~240V/50Hz 208V/60Hz	Pa	50(80)	50(80)	50(80)	50(80)	50(80)	50(80)	50(80)	120(90)	120(90)	120(90)	120(90)	120(90)	220	220
	230V/60Hz	Pa	80(105)	80(105)	90(115)	90(115)	90(115)	90(115)	90(115)	170(150)	170(150)	170(150)	170(150)	170(150)	–	–
Piping	Connection Type	–	Flare-nut Connection (with Flare Nuts)												Brazing	
	Liquid	mm	Φ 6.35	Φ 6.35	Φ 6.35	Φ 6.35	Φ 6.35	Φ 9.53	Φ 9.53	Φ 9.53	Φ 9.53	Φ 9.53	Φ 9.53	Φ 9.53	Φ 9.53	Φ 9.53
		inch	1/4	1/4	1/4	1/4	1/4	3/8	3/8	3/8	3/8	3/8	3/8	3/8	3/8	3/8
	Gas	mm	Φ12.70	Φ12.70	Φ12.70	Φ12.70	Φ 15.88	Φ 15.88	Φ 15.88	Φ 15.88	Φ 15.88	Φ 15.88	Φ 15.88	Φ 15.88	Φ 19.05	Φ 22.20
		inch	1/2	1/2	1/2	1/2	5/8	5/8	5/8	5/8	5/8	5/8	5/8	5/8	3/4	7/8
	Condensate Drain	mm	I.D.32													
Weight	Net Weight	kg	25(24*2)	25(24*2)	25(24*2)	25(24*2)	30(31*2)	30(31*2)	30(31*2)	45(44*2)	45(44*2)	45(44*2)	53(50*2)	53(50*2)	94	106
	Gross Weight	kg	31(30*2)	31(30*2)	31(30*2)	31(30*2)	36(38*2)	37(38*2)	37(38*2)	52(52*2)	52(52*2)	52(52*2)	61(59*2)	61(59*2)	106	111
Dimensions	External H	mm	270	270	270	270	270	270	270	300	300	300	300	300	470	470
	External W	mm	650+75	650+75	650+75	650+75	900+75	900+75	900+75	1100+75	1100+75	1100+75	1400+75	1400+75	1060	1250
	External D	mm	720	720	720	720	720	720	720	800	800	800	800	800	1120	1120
	Packaging H	mm	385	385	385	385	385	385	385	415	415	415	415	415	546	546
	Packaging W	mm	895	895	895	895	1140	1140	1140	1345	1345	1345	1640	1640	1276	1466
	Packaging D	mm	870	870	870	870	870	870	870	950	950	950	950	950	1345	1345

Notes:

1.The nominal cooling capacity and heating capacity are based on the following conditions:
Cooling Operation Conditions
Indoor Air Inlet Temperature: 27℃ DB (80°F DB), 19.0℃ WB (66.2°F WB)
Outdoor Air Inlet Temperature: 35℃ DB (95°F DB)
Piping Length: 7.5 Meters Piping Lift: 0 Meter
Heating Operation Conditions
Indoor Air Inlet Temperature: 20℃ DB (68°F DB)
Outdoor Air Inlet Temperature: 7℃ DB (45°F DB), 6℃ WB (43°F WB)

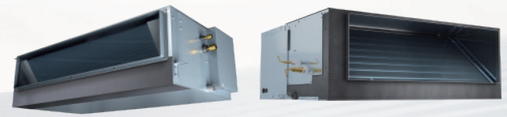
2. The sound pressure level is based on the following conditions: 1.5m beneath the unit.
With discharge duct (2.0m) and return duct (1.0m).
The above data was measured in an anechoic chamber so that the reflected sound should be taken into consideration in the field.

3. When bottom air inlet is adopted, the sound pressure will increase according to factors such as installation mode and the room structure.

1: For AVD-76/96, the filter is not standard.

*2: The value noted *2 is the parameter of the indoor units with power supply 208~230V/60Hz.

Ceiling Ducted Type (Low Static Pressure)



Model			AVD-07 HCFCL	AVD-09 HCFCL	AVD-12 HCFCL	AVD-15 HCFCL	AVD-19 HCFCL	AVD-22 HCFCL	AVD-24 HCFCL	AVD-27 HCFCL	AVD-30 HCFCL	AVD-38 HCFCL	AVD-48 HCFCL	AVD-54 HCFCL	AVD-76U X6SEL*1	AVD-96U X6SFL*1
Power Supply			AC 1Φ, 220V~240V/50Hz												AC 3Φ, 380~415V/50Hz	
Capacity	Cooling	kW	2.2	2.8	3.6	4.5	5.6	6.3	7.1	8.0	9.0	11.2	14.0	16.0	22.4	28.0
		Btu/h	7,500	9,600	12,300	15,400	19,100	21,600	24,200	27,400	30,800	38,000	48,000	54,500	76,500	95,600
	Heating	kW	2.5	3.2	4.0	5.0	6.3	7.1	8.0	9.0	10.0	12.5	16.0	18.0	25.0	31.5
		Btu/h	8,500	10,900	13,700	17,100	21,600	24,200	27,400	30,800	34,200	42,500	54,500	61,500	85,300	107,500
Power Input	Cooling	W	60	60	110	110	90	160	160	240	240	240	290	360	950	1120
	Heating	W	60	60	110	110	90	160	160	240	240	240	290	360	950	1120
Sound Pressure		dB(A)	27/23/21	27/23/21	34/30/25	34/30/25	32/30/26	35/28/24	35/28/24	38/33/30	38/33/30	38/33/30	41/38/33	44/39/33	50	52
Air Flow Rate (Hi/Me/Lo)		m^3/min	9/7/6	9/7/6	12/10/8.5	12/10/8.5	15/13/10	19/14/10	19/14/10	28/24/19.5	28/24/19.5	28/24/19.5	35.5/29/24	39/31/24	58	72
External Static Pressure		Pa	30	30	30	30	30	30	30	60	60	60	60	60	100	100
Piping	Connection Type	–	Flare-nut Connection (with Flare Nuts)												Brazing	
	Liquid	mm	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ9.53	Φ9.53	Φ9.53	Φ9.53	Φ9.53	Φ9.53	Φ9.53	Φ9.53	Φ9.53
		inch	1/4	1/4	1/4	1/4	1/4	3/8	3/8	3/8	3/8	3/8	3/8	3/8	3/8	3/8
	Gas	mm	Φ12.70	Φ12.70	Φ12.70	Φ12.70	Φ15.88	Φ15.88	Φ15.88	Φ15.88	Φ15.88	Φ15.88	Φ15.88	Φ15.88	Φ19.05	Φ22.20
		inch	1/2	1/2	1/2	1/2	5/8	5/8	5/8	5/8	5/8	5/8	5/8	5/8	3/4	7/8
	Condensate Drain	mm	I.D.32													
Weight	Net Weight	kg	25	25	25	25	30	30	30	45	45	45	52	52	94	106
	Gross Weight	kg	31	31	31	31	36	37	37	52	52	52	61	61	106	111
Dimensions	External H	mm	270	270	270	270	270	270	270	300	300	300	300	300	470	470
	External W	mm	650+75	650+75	650+75	650+75	900+75	900+75	900+75	1100+75	1100+75	1100+75	1400+75	1400+75	1060	1250
	External D	mm	720	720	720	720	720	720	720	800	800	800	800	800	1120	1120
	Packaging H	mm	385	385	385	385	385	385	385	415	415	415	415	415	546	546
	Packaging W	mm	895	895	895	895	1140	1140	1140	1345	1345	1345	1640	1640	1276	1466
	Packaging D	mm	870	870	870	870	870	870	870	950	950	950	950	950	1345	1345

Notes:

1.The nominal cooling capacity and heating capacity are based on the following conditions:
Cooling Operation Conditions
Indoor Air Inlet Temperature: 27℃ DB (80°F DB), 19.0℃ WB (66.2°F WB)
Outdoor Air Inlet Temperature: 35℃ DB (95°F DB)
Piping Length: 7.5 Meters Piping Lift: 0 Meter
Heating Operation Conditions
Indoor Air Inlet Temperature: 20℃ DB (68°F DB)
Outdoor Air Inlet Temperature: 7℃ DB (45°F DB), 6℃ WB (43°F WB)

2. The sound pressure level is based on the following conditions: 1.5m beneath the unit.
With discharge duct (2.0m) and return duct (1.0m).
The above data was measured in an anechoic chamber so that the reflected sound should be taken into consideration in the field.

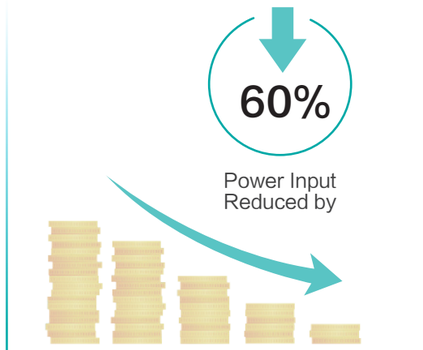
3. When bottom air inlet is adopted, the sound pressure will increase according to factors such as installation mode and the room structure.

1: For AVD-76/96, the filter is not standard.

Wall Mounted Type

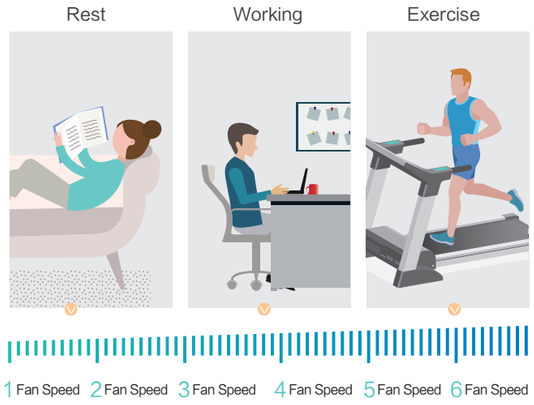
High-efficiency DC Fan Motor

Equipped with a DC fan motor, the unit significantly reduces the power consumption by 60% compared to conventional AC products, ensuring low-cost operation.



6 Fan Speed

6 indoor fan speeds are available to meet the needs of different indoor conditions.



Dual Purification to Enhance the Health of Indoor Air

Self-cleaning of Indoor Units

The indoor units feature an intelligent self-cleaning function that efficiently clears the heat exchangers without manual intervention, saving your valuable time and cost.



56℃ High-temperature Sterilization

With an advanced 56℃ high-temperature sterilization function, our indoor units swiftly eliminate viruses within the indoor unit. This ensures the released air is pure, providing users a healthy and comfortable indoor environment.



R-32 | R-410A

Wall Mounted Type



Model				AVS-05 HJDTD	AVS-07 HJDTD	AVS-09 HJDTD	AVS-12 HJDTD	AVS-15 HJDTD	AVS-19 HJDTD	AVS-24 HJDTD	AVS-28 HJDTD
Power Supply				AC 1Φ, 220V~240V/50Hz/60Hz							
Capacity	Cooling		kW	1.7	2.2	2.8	3.6	4.5	5.6	7.1	8.4
			Btu/h	5,800	7,500	9,600	12,300	15,400	19,100	24,200	28,700
	Heating		kW	2.0	2.5	3.3	4.0	5.0	6.3	8.0	8.4
			Btu/h	6,500	8,500	11,300	13,700	17,100	21,500	27,300	28,700
Power Input	Cooling		W	20	20	20	30	20	30	50	80
	Heating		W	20	20	20	30	30	30	70	80
Sound Pressure			dB(A)	33/32/32/ 30/30/28	36/35/33/ 32/30/28	36/35/33/ 32/30/28	38/35/33/ 32/30/28	38/37/36/ 32/31/29	40/38/36/ 35/33/31	45/42/41/ 38/35/31	50/48/45/ 41/36/33
Airflow Rate			m^3/min	8.7/8.3/8.2/ 7.5/7.2/7.0	9.8/9.2/8.7/ 8.2/7.5/7.0	9.8/9.2/8.7/ 8.2/7.5/7.0	10.3/9.2/8.7/ 8.2/7.5/7.0	11.5/11.0/10.3/ 9.0/8.7/8.0	16.2/15.0/14.2/ 13.3/12.2/11.5	20.0/18.0/17.0/ 15.0/13.3/11.7	23.3/22.0/20.0/ 17.0/14.2/12.2
Panel Colour			–	White							
Piping	Connection Type		–	Flare-nut Connection(with Flare Nuts)							
	Liquid		mm	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ9.53	Φ9.53	Φ9.53
			inch	1/4	1/4	1/4	1/4	1/4	3/8	3/8	3/8
	Gas		mm	Φ9.53	Φ9.53	Φ9.53	Φ9.53	Φ12.7	Φ15.88	Φ15.88	Φ15.88
			inch	3/8	3/8	3/8	3/8	1/2	5/8	5/8	5/8
	Condensate Drain		–	O.D. 22							
Weight	Net Weight		kg	9.5	9.5	9.5	9.5	13.0	14.4	14.4	14.4
	Gross Weight		kg	13.4	13.4	13.4	13.4	17.8	19.4	19.4	19.4
Demensions	External Dimension	H	mm	270	270	270	270	315	315	315	315
		W	mm	845	845	845	845	960	1120	1120	1120
		D	mm	203	203	203	203	230	230	230	230
	Packaging Dimension	H	mm	375	375	375	375	430	430	430	430
		W	mm	943	943	943	943	1058	1223	1223	1223
		D	mm	310	310	310	310	328	328	328	328

Notes:

1. The rated capacity is based on the following conditions:
   Cooling conditions: indoor air inlet temperature: 27℃ DB, 19℃ WB, outdoor air inlet temperature: 35 ℃ DB, pipe length: 7.5m, pipe height diference: 0m.
   Heating conditions: indoor air inlet temperature: 20℃ DB, outdoor air inlet temperature: 7℃ DB, 6℃ WB, pipe length: 7.5m, pipe height diference: 0m.
2. The above noise values are measured in an anechoic chamber so that reflected sound should be taken into consideration during actual operation.
   The above noise values are measured under the fan mode operation, and measured at a point 1m in front of the unit and 0.8m below the unit.

Ceiling & Floor Type

Sleek Smooth Design

Shiny white cover panel of the unit has an streamlined elegant aesthetic. The bolts and nuts used to secure the unit onto wall or ceiling are designed to be concealed in the unit for a sleek room interior look.



Flexible Installation

The unit can be installed to be standing on floors or hanging on ceilings. Whereby interior walls maximized to display items, can hang the unit on the ceiling.

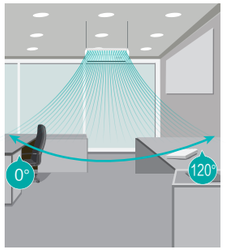


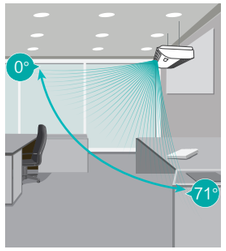
Hanging on the wall　　Standing on the floor

Wide Air Supply

Louvers are consist of horizontal and vertical flaps to cover larger coverage area to the edges of any rooms. Wider opening angle from up to 120° for vertical louvers and up to 71 ° for horizontal louvers supplies air further and lower down to floor.

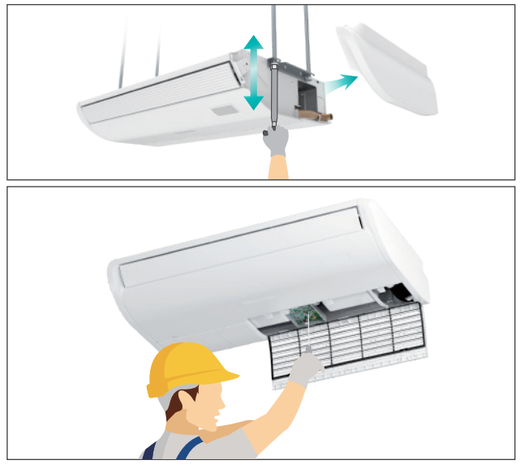






Convenient Installation and Maintenance

Adjust the ceiling or wall mounting height by just opening the side panels without the need to access the internal parts. Service manholes are unnecessary due to the strategic repositioning of piping connections and electrical box behind the air return panel.





Model			AVV-17URSCA	AVV-18URSCA	AVV-22URSCA	AVV-24URSCA	AVV-27URSCB	AVV-30URSCB	AVV-38URSCB	AVV-48URSCC
Power Supply			AC 1Φ, 220V~240V/50Hz/60Hz							
Capacity	Cooling	kW	5.0	5.6	6.3	7.1	8.4	9.0	11.2	14.2
		Btu/h	17,100	19,100	21,500	24,200	28,700	30,700	38,200	48,500
	Heating	kW	5.6	6.5	7.5	8.5	9.6	10.0	13.0	16.3
		Btu/h	19,100	22,200	25,600	29,000	32,800	34,100	44,400	55,600
Power Input	Cooling	W	40	40	70	70	70	80	130	160
	Heating	W	40	40	70	70	70	80	130	160
Sound Pressure	Ceiling	dB(A)	39/35/30	39/35/30	45/41/37	45/41/37	43/39/34	45/40/36	51/46/40	50/46/42
	Floor	dB(A)	43/38/35	43/38/35	48/44/40	48/44/40	46/41/37	48/43/39	54/49/43	55/50/46
Airflow Rate		m^3/min	13.0/11.0/9.0	13.0/11.0/9.0	16.1/14.0/11.3	16.1/14.0/11.3	18.2/15.2/12.2	19.4/16.3/13.3	24.8/20.5/16.3	33.0/28.0/23.0
Speed-up Setting HH1		m^3/min	14.2	14.2	17.8	17.8	19.8	21.2	27.0	36.0
Speed-up Setting HH2		m^3/min	16.0	16.0	20.0	20.0	22.3	23.5	29.2	37.4
Panel Colour		–	Neture White							
Piping	Connection Type	–	Flare-nut Connection (with Flare Nuts)							
	Liquid	mm	Φ 6.35	Φ 6.35	Φ 9.53	Φ 9.53	Φ 9.53	Φ 9.53	Φ 9.53	Φ 9.53
		inch	1/4	1/4	3/8	3/8	3/8	3/8	3/8	3/8
	Gas	mm	Φ 15.88	Φ 15.88	Φ 15.88	Φ 15.88	Φ 15.88	Φ 15.88	Φ 15.88	Φ 15.88
		inch	5/8	5/8	5/8	5/8	5/8	5/8	5/8	5/8
	Condensate Drain	mm	I.D.32							
Weight	Net Weight	kg	31	31	32	32	39	40	41	47
	Gross Weight	kg	38	38	39	39	46	47	48	56
Dimensions	External	H mm	230	230	230	230	230	230	230	230
		W mm	990	990	990	990	1285	1285	1285	1580
		D mm	680	680	680	680	680	680	680	680
	Packaging	H mm	340	340	340	340	340	340	340	340
		W mm	1110	1110	1110	1110	1400	1400	1400	1690
		D mm	830	830	830	830	830	830	830	830

Notes:

1. The nominal cooling capacity and heating capacity are based on the following conditions:
   Cooling Operation Conditions
   Indoor Air Inlet Temperature: 27℃ DB (80°F DB), 19.0℃ WB (66.2°F WB)
   Outdoor Air Inlet Temperature: 35℃ DB (95°F DB)
   Piping Length: 7.5 Meters　Piping Lift: 0 Meter
   Heating Operation Conditions
   Indoor Air Inlet Temperature: 20℃ DB (68°F DB)
   Outdoor Air Inlet Temperature: 7℃ DB (45°F DB), 6℃ WB (43°F WB)
2. The sound pressure level is based on the following condations:
   1.0m beneath the unit, 1.0m from Discharge Grille.
   The above data was measured in an anechoic chamber so that the reflected sound should be taken into consideration in the field. When bottom air inlet is adopted, sound pressure will increase according to factors such as installation mode and the room structure.

Floor Concealed Type

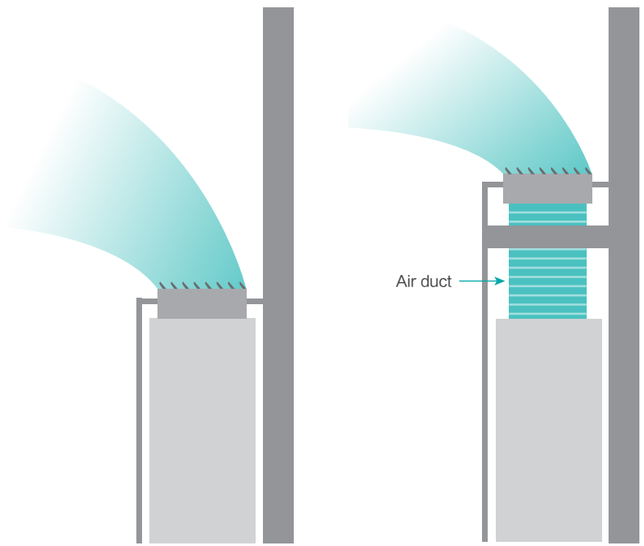
Space Saving

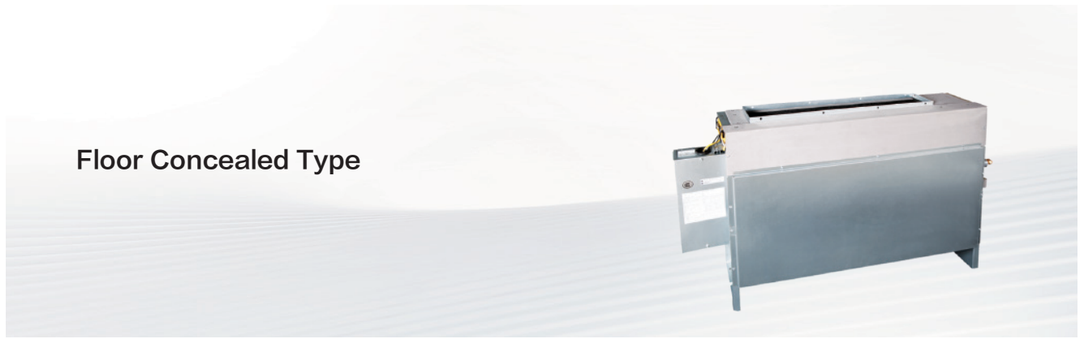
Floor concealed units are designed to be installed on floors completely concealed into the walls which designed to be slim and compact with only height of 620mm to be hidden under half-heighted windows.



Adjustable Static Pressure and Flexible Installation

With 2-level external static pressure adjustable, project design and installation are more flexible. Users can choose the air duct to increase the air supply distance in order to achieve the completely concealed installation.





Model			AVH-09UXCSAA	AVH-14UXCSAA	AVH-18UXCSBA	AVH-24UXCSBA
Power Supply			AC 1Φ, 220V~240V/50Hz			
Model			AVH-09UX2SAA	AVH-14UX2SAA	AVH-18UX2SBA	AVH-24UX2SBA
Power Supply			AC 1Φ, 220V/60Hz			
Capacity	Cooling	kW	2.8	4.3	5.6	7.1
		Btu/h	9,600	14,700	19,100	24,200
	Heating	kW	3.3	4.9	6.5	8.5
		Btu/h	11,300	16,700	22,200	29,000
Power Input	Cooling	W	50	80	90	120
	Heating	W	50	80	90	120
Sound Pressure		dB(A)	34/31/27	40/36/34	41/36/32	44/40/36
Airflow Rate		m^3/min	8.5/7.5/6.3	10.3/9.0/8.0	14.8/12.3/10.5	16.3/13.8/11.8
Piping	Connection Type	–	Flare-nut Connection (with Flare Nuts)			
	Liquid	mm	Φ 6.35	Φ 6.35	Φ 6.35	Φ 9.53
		inch	1/4	1/4	1/4	3/8
	Gas	mm	Φ 12.70	Φ 12.70	Φ 15.88	Φ 15.88
		inch	1/2	1/2	5/8	5/8
	Condensate Drain	mm	I.D.32			
Weight	Net Weight	kg	18	22	26	27
	Gross Weight	kg	30	31	37	37
Dimensions	External	H mm	620	620	620	620
		W mm	948+139	948+139	1218+139	1218+139
		D mm	202	202	202	202
	Packaging	H mm	675	675	675	675
		W mm	1160	1160	1430	1430
		D mm	240	240	240	240

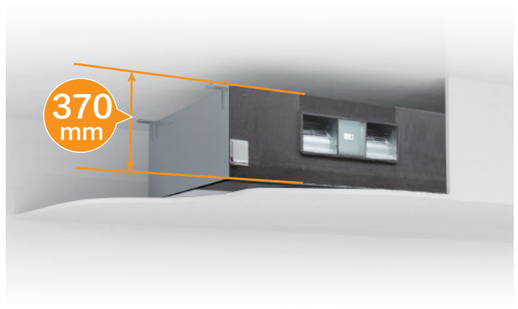
Notes:

1. The nominal cooling capacity and heating capacity are based on the following conditions:
   Cooling Operation Conditions
   Indoor Air Inlet Temperature: 27℃ DB (80°F DB), 19.0℃ WB (66.2°F WB)
   Outdoor Air Inlet Temperature: 35℃ DB (95°F DB)
   Piping Length: 7.5 Meters Piping Lift: 0 Meter
   Heating Operation Conditions
   Indoor Air Inlet Temperature: 20℃ DB (68°F DB)
   Outdoor Air Inlet Temperature: 7℃ DB (45°F DB), 6℃ WB (43°F WB)
2. The sound pressure level is based on the following conditions:
   1.5m meters from the unit and 1.5m meters from floor level.
   The above data was measured in an anechoic chamber so that reflected sound should be taken into consideration in the field.

All Fresh Air Indoor Unit

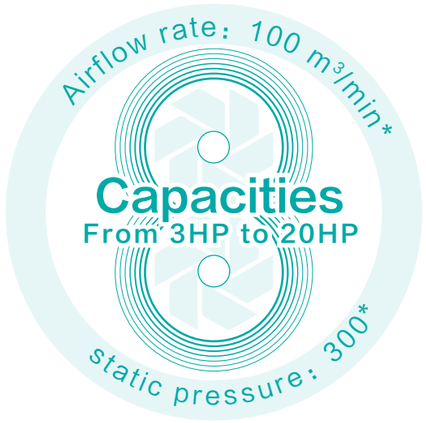
Space Saving

Fresh air unit consising of height of 370mm only requires small amount of ceiling space and fits into complicated kitchen ceilings with various exhaust duct connections.



Larger Airflow Rate & Static Pressure Options

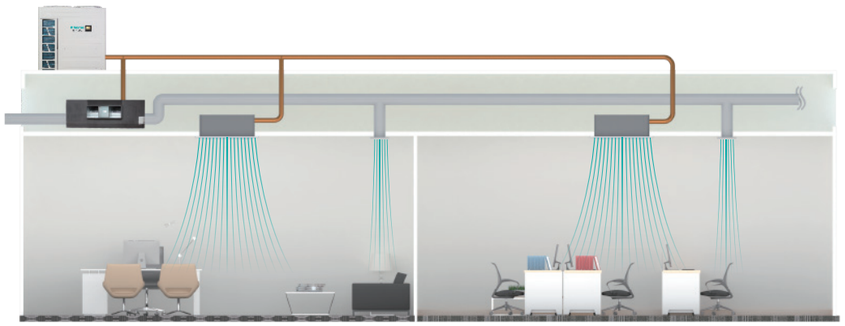
The total amount of fresh air units could be reduced with larger capacity, large airflow rate per unit. With the reduced amount of units, fresh air ducts often need to be supply to the furthest room. Hence achievable with high static pressures offered.



*Note: only specific model can reach this figure.

Simple & Flexible Piping System

Fresh air from the units could be pre-cooled connecting to the same refrigerant systems with other indoor units, introducing cooled or warm fresh air directly without overburdening other fan coil units.





Model				AVA-30UX CSCH-70	AVA-48UX CSQH-108	AVA-76UX CSRH-168	AVA-96UX CSRH-210	AVA-114UX 6SRH-300	AVA-154UX 6SSH-400	AVA-190UX 6STH-500	AVA-190UX 6STH-600
Power Supply				AC 1Φ, 220V~240V/50Hz				AC 3Φ, 380V~415V/50Hz			
Model				AVA-30UX 2SCH-70	AVA-48UX 2SQH-108	AVA-76UX 2SRH-168	AVA-96UX 2SRH-210	–			
Power Supply				AC 1Φ, 220V/60Hz				–			
Capacity	Cooling		kW	9.0	14.0	22.4	28.0	33.5	45.0	56.0	56.0
			Btu/h	30,700	47,800	76,500	95,600	114,300	153,600	191,100	191,100
	Heating		kW	8.6	13.7	21.9	24.5	26.8	36.0	44.8	44.8
			Btu/h	29,400	46,800	74,700	83,600	91,500	122,900	152,900	152,900
Power Input	Cooling		W	150	330	490	510	740	1120	1330	1620
	Heating		W	150	330	490	510	740	1120	1330	1620
Sound Pressure			dB(A)	32	43	45	46	56	61	64	66
Airflow Rate			m³/min	11.0	18.0	28.0	35.0	50.0	66.7	83.3	100.0
External Static Pressure			Pa	60(120)	200	220	220	220	300	320	300
Piping	Liquid		mm	Φ 9.53	Φ 9.53	Φ 9.53	Φ 9.53	Φ 12.70	Φ 12.70	Φ 15.88	Φ 15.88
			inch	3/8	3/8	3/8	3/8	1/2	1/2	5/8	5/8
	Gas		mm	Φ 15.88	Φ 15.88	Φ 19.05	Φ 22.20	Φ 25.40	Φ 25.40	Φ 28.60	Φ 28.60
			inch	5/8	5/8	3/4	7/8	1	1	1-1/8	1-1/8
	Condensate Drain		mm	I.D.32					RC1 (Internal Screw)		
Weight	Net Weight		kg	46	60	97	97	97	196	222	222
	Gross Weight		kg	51	64	117	117	117	240	267	267
Dimensions	External	H	mm	370	370	486	486	486	635	735	735
		W	mm	920	1320	1270	1270	1270	1950	1950	1950
		D	mm	800	800	1069	1069	1069	805	805	805
	Packaging	H	mm	390	390	540	540	540	816	916	916
		W	mm	1112	1512	1466	1466	1466	2213	2213	2213
		D	mm	922	922	1290	1290	1290	1006	1006	1006
Temperature Range of Fresh Air			–	Cooling: 20℃~43℃, Heating: -5℃~15℃							

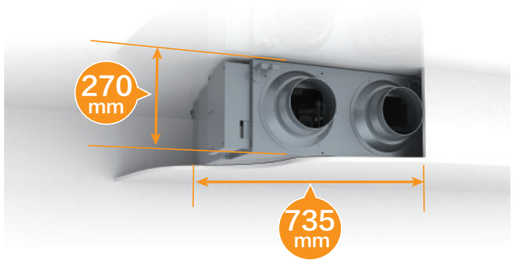
Notes:

1. The nominal cooling capacity and heating capacity are based on following conditions:
   Cooling operation conditions: 33℃ DB, 28℃ WB, piping length: 7.5m, piping lift: 0m.
   Heating operation conditions: 0℃ DB, -2.9℃ WB, piping length: 7.5m, piping lift: 0m.
   (Heating capacity is tested when defrosting is not available)
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 refl ected sound should be taken into consideration in the fled.
3. The unit shall be connected to the outdoor unit. In case of connecting the fresh air indoor unit with other types of indoor units in the same refrigerant system, please calculate the capacity of the unit as 46.1KBtu/h (30.7KBtu/h), 71.7KBtu/h (47.8KBtu/h), 143.3KBtu/h (95.6KBtu/h).
4. When the outdoor unit is connected only with all fresh air indoor unit, the configuration rate is 100%.
5. Under cooling mode,when outdoor temperature is lower than 20℃, the system will automatically shift to ventilation operation;
   Under heating mode, when outdoor temperature is higher than 15℃ the system will automatically shift to ventilation operation;
   In case inlet temperature is below -5℃, all fresh air unit will stop.

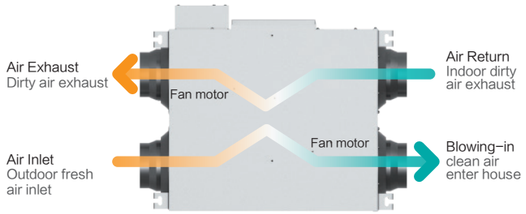
Heat Recovery Ventilator

Compact Body, Convenient Installation

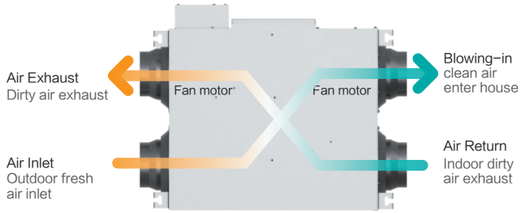
Its compact design facilitates easy installation in narrow ceil-ings. With a width of only 735mm, the unit (HKF/50C1EC) is perfect for the tight ceiling spaces.



Airflow System



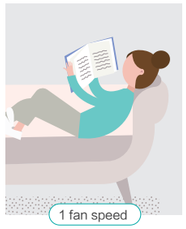
HKF-80~100C1EC

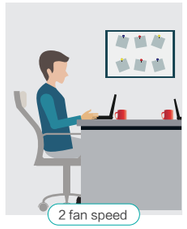


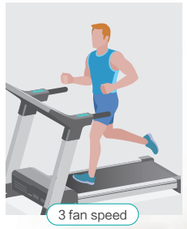
HKF-50C1EC, HKF-150~300C1EE

3-level Fan Speed for Your Choice

The three-level fan speed adjustment, offering high, medium, and low options, provides flexibility to cater to individual preferences in various environments.


1 fan speed


2 fan speed


3 fan speed

*This feature is available for the unit HKF/50C1EC, HKF/80C1EC, HKF/100C1EC.

Low Noise

The unit features a low-noise fan, optimal internal silencer, and air channels, significantly reducing operation noise to 26.5dB(A)*. Additionally, a static pressure adjustment plate on the exhaust side optimizes outdoor static pressure, further minimizing the noise.

* The noise level under the low airflow speed for the unit HKF/50C1EC can achieve 26.5dB(A).

Heat Recovery Ventilator

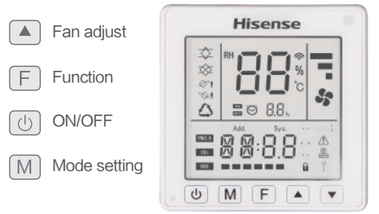
Intelligent Control

The unit can be easily connected to the central control system through the dedicated converter* , enabling centralized control alongside the air-conditioning system.

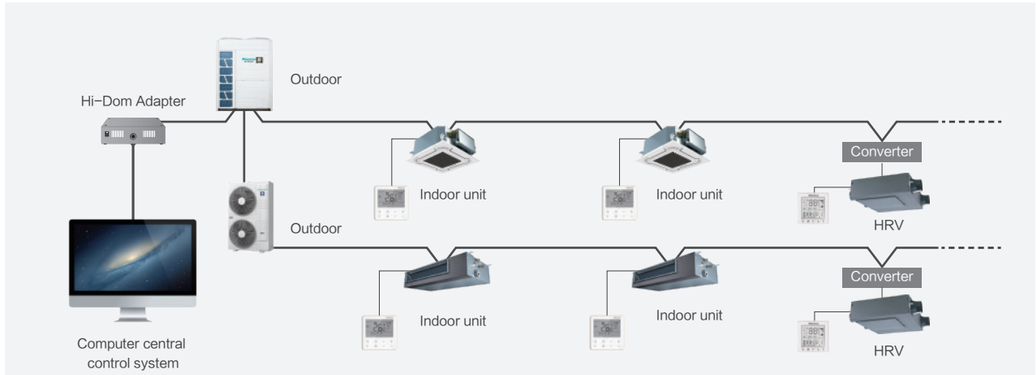
* For central control requirements, please contact our technical engineers regarding the converter.

Features

- Large LED screen display
- Temp. and fan speed display
- Fan speed setting
- Timer



Wired Controller HYXE-KC01



High-efficiency Heat-exchange Core

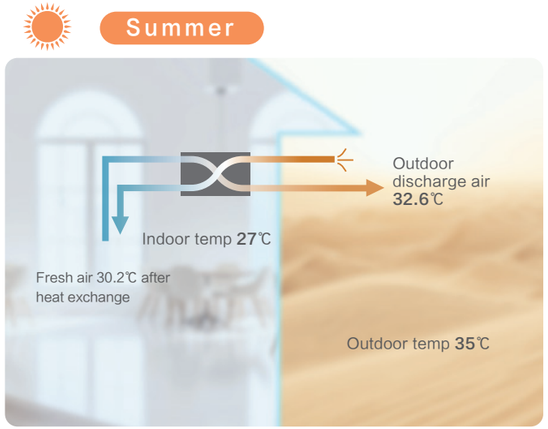
The hexagonal high-efficiency counterflow heat exchanger core adopts ultra-thin high-performance heat transfer membrane and an integrated optimized flow channel, which extends the time of the heat exchange, thereby improving the heat exchange efficiency. It effectively processes the temperature and humidity of the outdoor fresh air to a level close to the indoor air condition, thereby reducing air conditioning energy consumption.



Note: The unit HKF/50C1EC is equipped with a hexagonal heat exchanger.

Energy Saving Analysis

During the summer, the indoor air at 27℃ is exhausted and passes through the heat exchanger core. This process precools the outdoor air from 35℃ to 30.2℃, which is then introduced into the indoor space as fresh air, as shown in the diagram. The air conditioning system only needs to further cool this air by 3.2℃ to maintain a comfortable indoor temperature. Taking the HKF-50C1EC as an example, the air flow is 500m³/h, heat recovery efficiency is 60%, and enthalpy exchange efficiency is 63%.



Inlet fresh air

	HRV	Fan
Dry bulb temp.	30.2	35
Wet bulb temp.	22.9	28
Moisture content	14.7	21.1
Relative humidity	54.5	59.1
Enthalpy	68	89.4
Cooling recovery	1.76	0
Heat load	2.8	2.8

Air conditioning — Indoor air

Dry bulb temp.	27
Moisture content	19.5
Relative humidity	49.8
Enthalpy	55.5

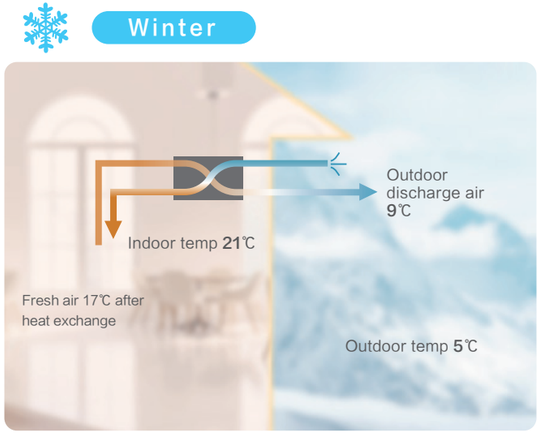
Outdoor Air

Dry bulb temp.	35
Wet bulb temp.	28
Relative humidity	59.1
Enthalpy	89.4

Exhause air

HRV VS Traditional Fan

During the winter, the indoor air at 21℃ is exhausted and passes through the heat exchanger core. This process preheats the outdoor air from 5℃ to 17℃, which is then introduced into the indoor space as fresh air, as shown in the diagram. The air conditioning system only needs to further heat this air by 4℃ to maintain a comfortable indoor temperature. Taking the HKF-50C1EC as an example, the air flow is 500m³/h, heat recovery efficiency is 80%, and enthalpy exchange efficiency is 70%.



Inlet

	HRV	Fan
Dry bulb temp.	17.8	5
Wet bulb temp.	10.16	2
Moisture content	4.5	6
Relative humidity	36	58.5
Enthalpy	29.4	12.9
Heating recovery	1.4	0
Heat load	2	2

Air conditioning — Indoor air

Dry bulb temp.	21
Moisture content	13
Relative humidity	39.2
Enthalpy	36.5

Outdoor Air

Dry bulb temp.	5
Wet bulb temp.	2
Relative humidity	58.5
Enthalpy	12.9

Exhause air

HRV VS Traditional Fan



800~1000m³/h | 1500~2000m³/h | 2500~3000m³/h

Model (HKF/*)				50C1EC	80C1EC	100C1EC	150C1EE	200C1EE	250C1EE	300C1EE
Power Supply				AC 1Φ, 220V/50Hz			AC 3Φ, 380V/50Hz			
Air Flow		High	m³/h	500	800	1000	1500	2000	2500	3000
		Medium	m³/h	300	600	750	—	—	—	—
		Low	m³/h	180	400	500	—	—	—	—
ESP	Fresh Air Static Pressure	High	Pa	80	130	165	180	160	180	200
		Medium	Pa	70	100	120	—	—	—	—
		Low	Pa	40	80	60	—	—	—	—
	Exhaust Air Static Pressure	High	Pa	80	130	165	180	160	180	200
		Medium	Pa	70	100	120	—	—	—	—
		Low	Pa	40	80	60	—	—	—	—
	Fresh Air Available Pressure	High	Pa	80	130	165	180	160	200	228
		Medium	Pa	70	100	120	—	—	—	—
		Low	Pa	40	80	60	—	—	—	—
	Exhaust Air Available Pressure	High	Pa	80	130	165	180	160	200	228
		Medium	Pa	70	100	120	—	—	—	—
		Low	Pa	40	80	60	—	—	—	—
Sound Pressure Level		High	dB(A)	38.5	40	43	46	47	51	52
		Medium	dB(A)	33.5	38	41	—	—	—	—
		Low	dB(A)	26.5	34	38	—	—	—	—
Enthalpy Exchange Efficiency	Cooling	High	%	63	57	57	56	56	56	57
		Medium	%	63	57	57	—	—	—	—
		Low	%	65	59	58	—	—	—	—
	Heating	High	%	69	66	66	65	65	64	63
		Medium	%	69	66	66	—	—	—	—
		Low	%	71	68	68	—	—	—	—
Heat Exchange System			–	Air-to-air cross flow heat recovery (sensible heat + potential heat)						
Heat Exchange Part				Ventilation high efficiency all-in-one heat exchange core						
Operation Current		High	A	1.42	2.02	4.88	2.13	2.59	2.92	4.7
		Medium	A	0.95	1.88	4.3	—	—	—	—
		Low	A	0.67	1.72	3.47	—	—	—	—
Input Power		High	W	313	422	1020	1050	1550	1440	2320
		Medium	W	204	392	900	—	—	—	—
		Low	W	140	360	726	—	—	—	—
Net Size (L×H×W)			mm	1112×270×735	1115×390×1135	1115×390×1135	1500×540×1200	1550×540×1400	1610x600x1330	1700×640×1500
Package Size (L×H×W)			mm	1220×380×1060	1330×545×1210	1330×545×1210	1660×690×1345	1710×710×1545	1770×765×1470	1790×818×1590
Flange Dimensions	Air Inlet		mm	Φ194	Φ242	Φ242	320×300	320×300	365×275	365×275
	Air Outlet		mm				320×300	320×300	500×350	500×350
Net Weight			kg	52	72	79	126	172	185	222
Gross Weight			kg	61	93	92	149	177	189	240
Operation Range			–	-10~52℃(DB), 85%RH or lower						

AHU Connection KIT

The Hisense AHU-kit integrates external heat exchangers of Air-handing units (AHU) into a Hisense VRF system to provide more flexible air conditioning solutions.

Main Function

- ON/OFF Control
- Temperature Setting
- Capacity Demand
- Operation Mode

Communication wire　Sensor signal　Refrigerant pipe



*The wired controller HYXE-VA01A is standard.

AHU Connection KIT

AHU kit can provide 3 kinds of control type for AHU application: Inlet air temperature control, outlet air temperature control and duty signal control.

Capacity Control Mode	Set Temperature by Remote Controller	Set ODU Capacity Range
Inlet Air (room air) Temperature Control	Cooling: 16~32 ℃ Heating: 16~32 ℃	—
Outlet Air Temperature Control		
Duty Signal Control (0~10V or 0~5V or 4~20mA)	—	15%~100%

AHU Connection KIT			HZX-2 BEJ	HZX-4 BEJ	HZX-6 BEJ	HZX-10 BEJ		HZX-20 BEJ				HZX-30 BEJ				
Power Supply			AC 1Φ, 220V~240V/50Hz/60Hz													
Nominal Capacity of AHU		kBtu/h	19	36	54	76	96	114	132	154	170	190	212	232	250	272	287
Allowed Heat Exchanger Capacity (H/M/L)	Cooling	kW	5.6	11.2	16.0	22.4	28.0	33.5	40.0	45.0	50.0	56.0	61.5	69.0	73.0	80.0	85.0
		kW	5.0	9.0	14.0	20.0	25.0	30.0	35.0	43.0	48.0	52.0	58.0	65.0	71.0	76.0	82.0
		kW	4.0	7.1	11.2	16.0	20.0	28.0	33.5	40.0	45.0	50.0	56.0	61.5	69.0	73.0	80.0
	Heating	kW	7.1	12.5	18.0	25.0	31.5	37.5	45.0	50.0	56.0	63.0	69.0	77.5	82.5	90.0	95.0
		kW	5.6	10.0	16.0	22.4	28.0	33.5	40.0	47.5	53.0	60.0	66.0	75.0	79.0	86.0	92.0
		kW	4.5	8.0	12.5	17.9	22.4	31.5	37.5	45.0	50.0	56.0	63.0	69.0	77.5	82.5	90.0
Heat Exchanger Volume	Min	dm^3	0.57	1.03	1.92	2.92	3.89	4.76	5.85	6.79	7.57	8.47	9.04	9.50	10.39	11.39	12.36
	Max	dm^3	1.16	2.37	2.92	3.89	4.76	5.91	6.89	8.00	8.92	9.97	11.13	12.34	12.89	13.86	14.73
Equivalent Indoor Unit Capacity		kBtu/h	19	36	54	76	96	114	132	154	170	190	212	232	250	272	287
Net Weight		kg	7.1	7.1				7.2					9.2				
Gross Weight		kg	11.7	11.8				11.9					15.4				
Package Dimension (H × W × D)		mm	350 × 510 × 450										460 × 510 × 450				
Control Box	Model		HZX-BEJ/1														
	Outer Dimension(H × W × D)		112 × 419 × 349														
Expansion Valve Box	Model		HZX-2 BEJ/2	HZX-4 BEJ/2	HZX-6 BEJ/2	HZX-10 BEJ/2		HZX-20 BEJ/2					HZX-20 BEJ/2 (2 sets)				
	Outer Dimension(H × W × D)		61 × 437 × 166										61 × 437 × 166(2 sets)				

Operation conditions		Cooling	Heating
Indoor air inlet temperature	DB	27.0℃	20.0℃
	WB	19.0℃	–
Outdoor air inlet temperature	DB	35.0℃	7.0℃
	WB	–	6.0℃

DB: dry bulb; WB: wet bulb

Pipe Length: 7.5m; pipe height: 0m