Reimagine your solution

Hisense

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Hisense

FAN COIL UNIT

Hisense Central Air-Conditioning

COMPANY PROFILE

Hisense Group is a well-known large-scale electronic information industry group company. Supported by various technologies, Hisense's industrial pattern covers multimedia, home appliances, IT intelligent information system and modern real estate. Based on technology and focusing on innovation-oriented culture, its scientific and efficient technological innovation system makes Hisense always be at the forefront of the counterparts.

Jointly invested by Hisense Group and Hitachi Air Conditioning (changed to Johnson Control Hitachi in 2015), Qingdao Hisense Hitachi Air Conditioning Systems Co., Ltd. was established on January 8, 2003. It is a large joint venture integrating technology development for commercial and residential air conditioners, product manufacturing, marketing and users service as a whole. With the full support of all the shareholders such as Hisense Group and Johnson Control Hitachi, Hisense VRF is committed to becoming the market leader in the industry.

CONTENTS

Product Introduction

Hisense has three series of fan coil unit products, the concealed series, unconcealed series and cassette series with maximum air flow of 2,380m³/h to meet various demands of our users.

Super-low Noise

Low noise centrifugal fans with large impellers are equipped with low noise motors after subjected to strict static dynamic balance tests, rotates at low rotation speed to minimize the occurrence of vibration during operation and hence reducing noises from the unit.

Compact Structure

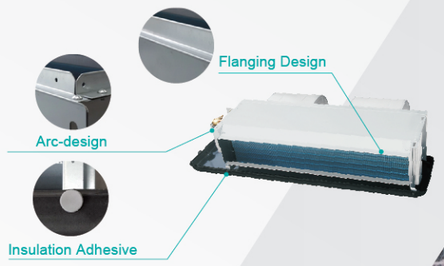
The unit has compact structure and excellent appearance. The height of the thinnest products is only 230mm. The ultra-thin design could meet the requirements of the users for the effective floor height of the buildings.

Materials

High quality hot-dip galvanized steel plate with excellent anti-corrosion performance are used, The plates were machined using Computer Numerical Control(CNC) to ensure high fitting accuracy and excellent appearance.

Humanized Design and Convenient Construction

Flange and arc design are used for the edges and corners of the plates to ensure the safety of operators.
The air outlets are designed to prevent deformation during handling and installation. Hence, maintains the quality of the fan coil unit.



Surface Air Cooler

The position of the surface cooler has been moved to an optimized location to ensure good air circulation. Thus, making full use of the surface cooler's capability and increasing heat exchanging efficiency.

Unique hydrophile fins are used on the surface cooler. The inter-fin design has been optimized to amplify the heat exchange effect. The heat exchange area is larger than that of the coolers of the same length by 15-20%.

Fan

Centrifugal fan with dual air inlets and front bending blades are used. The volute fan casings are made of galvanized steel sheets. All fans have been subject to accurate dynamic stability calibration to ensure its stable rotation. In addition, the fan is designed with minimum noise production.
The impellers are assembled using unique welding-free and riveting structures to eliminate damages and stresses exerted onto the galvanized layer on the metal. Hence, prolongs the service life of the centrifugal fan.
Larger impellers are considered into the fan design to release larger volume of air at low rotation speed with lower noise level.

Motor

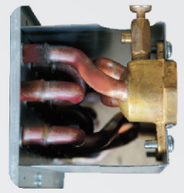
Low-noise and self-lubricating bearings are used in the motor without the need of additional oil injection, to ensure the unit to be long lasting with reliable operation throughout.

Condensate Water Tray

The Condensate water tray of the fan coil unit is made from single pressing machining process without welding points or joints. The tray consists of a slope design with outlet opening at the lower position to ensure the smooth discharge of condensate water without bacteria growth. The tray surface is coated with plastic sprays for a smooth appearance, resist from corrosion and rusts. The PE insulation layer at the bottom of the condensate water tray is adhered to the water plate through single hot pressing to prevent peeling and falling as well as the secondary condensation caused by cold bridge and peeling.

Distributor

The distributor is made of brass through forging, which could ensure the uniform flow distribution, low water resistance and high heat exchange efficiency.
The unique heave pipe clamps could ensure the stable pipeline installation and connection and prevent welding joints from being affected during installations.

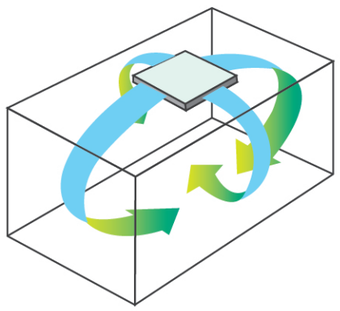


Cassette Fan Coil Unit

The 9 basic models of this series with air flow range of 380~2050m3/h could be widely used in office buildings, shopping malls, restaurants and so on.

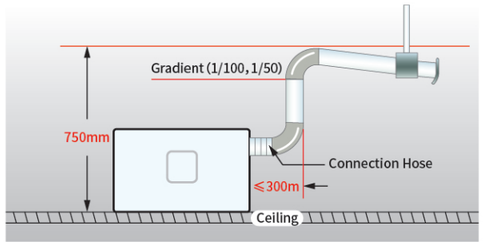
360° Surround Air Flow for Comfort

Cassette fan coil units could achieve 360° surround air delivery to attain a more uniform air distribution, further air delivery distance with lower noise. Therefore, creating a more comfortable environment.



Standard with High Head Drain Pump

High head drain pump with 750mm is built in the unit, and condensate water pipes can be installed more flexibly and conveniently. Also, the float switch can avoid the leakage of drain water.



Elegant Design and Beautiful Appearance

The suspended cassette fan coil has beautiful appearance which could match with different indoor decoration styles, making your space more pleasant.

Standard Accessories

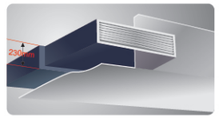
Cassette fan coil units are equipped with auto deflector controller device and water pump.

Horizontal Concealed Fan Coil Unit

This series has 10 basic models with the air flow rate range of 340~2,380m^3/h, which could be widely used in office buildings, hotels and so on.

Compact Structure Saving Installation Space

Compact design is used for the suspended horizontal concealed fan coil with the thickness of only 230mm, which could be easily concealed in the limited space above ceiling.



Models with Several Levels of Static Pressure Can Be Chosen

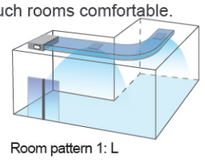
Various static pressures could be selected for the horizontal concealed fan coils, such as 12Pa/30Pa/50Pa, to match with the installation methods compatibility with air ducts and outlets, making the indoor air distribution condition comfortable for users to stay in.

Anti-corrosion and Anti-leakage Design

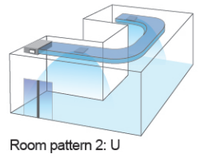
The surfaces of the metal plates of the units have been galvanized to resist corrosion and keep appearance. The integrated seamless condensate water tray could prevent condensate water leakage due to insufficient drainage, reducing the risks of the users.

Flexible Air Outlet Layout, Ensuring the More Even Air Flow

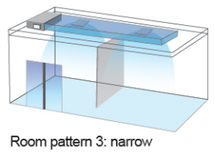
For rooms with irregular spaces, such as L or U rooms, further air delivery distance could make the people at each corner of such rooms comfortable.



Room pattern 1: L



Room pattern 2: U



Room pattern 3: narrow

Optional Accessories

Different accessories such as air-return filter, prolonged water coils, air-return tanks, wired controller (or wireless) and values could be chosen for the horizontal concealed fan coils.

Unconcealed Fan Coil Unit

Horizontal and vertical unconcealed fan coil unit has compact structure and small size , which brings convenient installation and save space.

Sleek Smooth Design

The unconcealed fan coil unit has a graceful appearance with new ultra-slim and streamlined design, which can be better fit with the interior decoration. And the smooth panel can be cleaned easily.

HFP-WM series : Horizontal Unconcealed Fan Coil Unit

Flexible Installation Options

The unit can be installed to be standing on floors or hanging on ceilings, giving more choice to users. Also more convenient maintenance is achieved due to unconcealed installation.

HFP-LM series : Vertical Unconcealed Fan Coil Unit

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Accessories

Mechanical Temperature Controller

HSXC-TA13M

LCD Temp. Controller

HSXC-TA02M
Without wireless receiving function

HSXC-TA03M
With wireless receiving function

LCD Wireless Controller

HSC-TA04
Goes with HSXC-TA03M

Wireless Controller

HSC-TA06

Standard for cassette unit.

Model Instructions

H F P - 34 W A / S D A 12 Z 03 # d L2 H A

- Filter model: A-nylon F-metal default- no filter
- Air box model: H-air box on the back X-air box at the bottom default-no air box
- Length of the water pan: L2-add 150mm L4-add 350mm default-standard
- Auxiliary heating: d-equipped default-no equipped
- Rows of heat exchanger coil: 03-3 rows ; 04-4 rows
- Pipes direction: Z-left Y-right
- External static pressure: Pa (default-cassette)
- Design serial* A/B/C ...
- Motor model: D-DC default-AC
- Power supply: S-3Φ default-1Φ
- Installation: A-concealed , M-unconcealed
- Fan coil: W-horizontal , L-Vertical , K4-4-way cassette .
- Air volume code: specificationsX10m³/h
- Name code: fan coil unit

Performance Parameters

Cassette Type Fan Coil (4-way, 2 tubes)

Model			HFP-34K4M	HFP-51K4M	HFP-68K4M	HFP-85K4M	HFP-102K4M	HFP-136K4M	HFP-170K4M	HFP-204K4M	HFP-238K4M
Air Flow Rate	High-speed	m³/h	380	550	680	880	1050	1380	1750	2050	2380
	Middle-speed		300	440	540	700	840	1100	1400	1640	1800
	Low-speed		230	330	410	530	630	830	1050	1230	1280
Cooling Capacity	High-speed	W	2000	3000	3800	4900	5800	7500	9800	11000	12600
	Middle-speed	W	1700	2550	3250	4150	4950	6400	8350	9350	10200
	Low-speed	W	1400	2050	2600	3400	4000	5200	6750	7600	8300
Heating Capacity	High-speed	W	3100	4700	5900	7600	9000	11600	15200	17100	18900
	Middle-speed	W	2650	4000	5000	6450	7650	9850	12900	14550	15800
	Low-speed	W	2100	3150	3950	5100	6050	7750	10200	11450	12450
Noise	High-speed	dB(A)	39	42	44	42	46	46	47	50	51
Power Input	High-speed	W	40	50	58	70	95	130	160	190	210
Motor	Type		Single Phase Motor								
	Insulation Grade		B								
	Power Supply		220V,50Hz,1Ph								
	Quantity		1								
Heating Exchanger	Water Flow Rate	m³/h	0.34	0.51	0.65	0.83	0.99	1.28	1.67	1.87	2.16
	Flow Resistance	kPa	11	13	22	18	25	23	28	33	42
	Dimension of Water connection pipe	in	ZG3/4(Inner screw-thread copper pipe)								
		out									
	Type		Copper pipe insert into highly efficient hydrophilic aluminum fins								
	Dimension of water drain pipe	mm	Φ26								
Overall Dimensions	Unit	L×W×H mm	592*592*242			750*750*240		840*840*240	840*840*290		
	Panel		650*650*40			850*850*40		950*950*40	950*950*40		
Net Weight	Unit	kg	17	18	18	22	23	25	26	27	27
	Panel		2.2			4.2		5.0			

★ Remarks

1. Cooling: water-return temperature: 7/12℃; air-return working conditions: dry-bulb temperature for inlet air: 27℃; wet-bulb temperature for inlet air: 19.5℃;
2. Heating: water temperature: 60℃; the water amount is same as that of cooling condition; air-return conditions: dry-bulb temperature for inlet air: 21℃;
3. These air flow is tested with nylon filter;
4. The air amount in the table is measured in the dry-status operation of the unit at the dry-bulb temperature of 20℃;
5. The noises in the table are measured in the semi-anechoic room with the background noise of 11.5dB(A);
6. Cassette fan coil is equipped auto deflector controller device and water pump.;
7. Specifications and parameters will be subject to changes due to products improvement without further notice. Please refer to the nameplate of the unit.

Performance Parameters

Horizontal Concealed Fan Coil (2 tubes, 3 row coils)

Model			HFP-34WA	HFP-51WA	HFP-68WA	HFP-85WA	HFP-102WA	HFP-119WA	HFP-136WA	HFP-170WA	HFP-204WA	HFP-238WA
Air Flow Rate	High-speed	m3/h	340	510	680	850	1020	1190	1360	1700	2040	2380
	Middle-speed	m3/h	279	418	558	697	836	940	1115	1394	1673	1952
	Low-speed	m3/h	170	255	340	425	510	618	680	850	1020	1190
Cooling Capacity	High-speed	W	2050	2920	3900	4680	5500	6350	7390	9250	10850	12670
	Middle-speed	W	1845	2628	3510	4212	4950	5715	6651	8325	9765	11403
	Low-speed	W	1435	2044	2730	3276	3850	4445	5173	6475	7595	8869
Heating Capacity	High-speed	W	3260	4790	6550	7850	9170	10680	12650	15980	18490	21510
Power Input	High-speed(12Pa)	W	36	50	60	74	93	112	130	147	183	221
	High-speed(30Pa)	W	43	57	70	84	105	121	151	169	206	245
	High-speed(50Pa)	W	48	64	81	97	114	131	169	204	243	291
Noise	High-speed(12Pa)	dB(A)	37	39	41	43	45	46	46	48	50	52
	High-speed(30Pa)	dB(A)	40	42	44	46	47	48	48	50	52	54
	High-speed(50Pa)	dB(A)	42	44	46	47	49	50	50	52	54	56
Fan			Front Curved Multi-wing Galvanized Steel Plate Centrifugal Double-suction Impeller									
Motor	Type		High Precision Low Noise Ball Bearing Single-phase Capacitor Motor									
	Insulation Grade		B									
	Power Supply		220V,50Hz,1Ph									
Coil	Type		Copper Tube Mechanical Expansion of Shutter Type Aluminum Fins									
	Working Pressure		≤1.6Mpa									
Inlet and Outlet Pipe Diameters			3/4 " Inner Groove									
Condensate Pipe			3/4 " External Groove									
Water Flow		kg/h	350	540	690	840	940	1090	1290	1580	1840	2240
Water Resistance		kPa	15	19	30	22	40	25	35	35	40	50
Net Weight	Air-return Box	kg	13	16	19	20	21	23	28	32	37	39
	No Air-return Box	kg	10	13	15	16	17	18	23	26	30	31

★ Remarks

1. Cooling: water-return temperature: 7/12℃; air-return working conditions: dry-bulb temperature for inlet air: 27℃; wet-bulb temperature for inlet air: 19.5℃;
2. Heating: water temperature: 60℃; the water amount is same as that of cooling condition; air-return conditions: dry-bulb temperature for inlet air: 21℃;
3. The low static pressure means the outlet air static pressure of 0Pa (with air outlet and filter) and 12Pa (without outlet and filter);
4. The air amount in the table is measured in the dry-status operation of the unit at the dry-bulb temperature of 20℃;
5. The noises in the table are measured in the semi-anechoic room with the background noise of 11.5dB(A);
6. The left or right installation pattern could be adjusted on site. However, after modification, the cooling and heating capacity must be multiplied with a correction factor of 0.9;
7. Specifications and parameters will be subject to changes due to products improvement without further notice. Please refer to the nameplate of the unit.

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Performance Parameters

Horizontal Unconcealed Fan Coil (2 tubes, 3row coils)

Model			HFP-34WM	HFP-51WM	HFP-68WM	HFP-85WM	HFP-102WM	HFP-119WM	HFP-136WM	HFP-170WM	HFP-204WM	HFP-238WM
Air Flow Rate	High-speed	m3/h	340	510	680	850	1020	1190	1360	1700	2040	2380
	Middle-speed	m3/h	279	418	558	697	836	940	1115	1394	1673	1952
	Low-speed	m3/h	170	255	340	425	510	618	680	850	1020	1190
Cooling Capacity	High-speed	W	2050	2920	3900	4680	5500	6350	7390	9250	10850	12670
	Middle-speed	W	1845	2628	3510	4212	4950	5715	6651	8325	9765	11403
	Low-speed	W	1435	2044	2730	3276	3850	4445	5173	6475	7595	8869
Heating Capacity	High-speed	W	3260	4790	6550	7850	9170	10680	12650	15980	18490	21510
Power Input	High-speed(12Pa)	W	36	50	60	74	93	112	130	147	183	221
	High-speed(30Pa)	W	43	57	70	84	105	121	151	169	206	245
	High-speed(50Pa)	W	48	64	81	97	114	131	169	204	243	291
Noise	High-speed(12Pa)	dB(A)	37	39	41	43	45	46	46	48	50	52
	High-speed(30Pa)	dB(A)	40	42	44	46	47	48	48	50	52	54
	High-speed(50Pa)	dB(A)	42	44	46	47	49	50	50	52	54	56
Fan			Front Curved Multi-wing Galvanized Steel Plate Centrifugal Double-suction Impeller									
Motor	Type		High Precision Low Noise Ball Bearing Single-phase Capacitor Motor									
	Insulation Grade		B									
	Power Supply		220V,50Hz,1Ph									
Coil	Type		Copper Tube Mechanical Expansion of Shutter Type Aluminum Fins									
	Working Pressure		≤1.6Mpa									
Inlet and Outlet Pipe Diameters			3/4 " Inner Groove									
Condensate Pipe			3/4 " External Groove									
Water Flow		kg/h	350	540	690	840	940	1090	1290	1580	1840	2240
Water Resistance		kPa	15	19	30	22	40	25	35	35	40	50
Net Weight		kg	19	22	25	27	30	33	36	44	47	49

★ Remarks

1. Cooling: water-return temperature: 7/12℃; air-return working conditions: dry-bulb temperature for inlet air: 27℃; wet-bulb temperature for inlet air: 19.5℃;
2. Heating: water temperature: 60℃; the water amount is same as that of cooling condition; air-return conditions: dry-bulb temperature for inlet air: 21℃;
3. These air flow is tested with nylon filter;
4. The air amount in the table is measured in the dry-status operation of the unit at the dry-bulb temperature of 20℃;
5. The noises in the table are measured in the semi-anechoic room with the background noise of 11.5dB(A);
6. Specifications and parameters will be subject to changes due to products improvement without further notice. Please refer to the nameplate of the unit.

Performance Parameters

Vertical Unconcealed Fan Coil (2 tubes, 3row coils)

Model			HFP-34LM	HFP-51LM	HFP-68LM	HFP-85LM	HFP-102LM	HFP-119LM	HFP-136LM	HFP-170LM	HFP-204LM	HFP-238LM
Air Flow Rate	High-speed	m3/h	340	510	680	850	1020	1190	1360	1700	2040	2380
	Middle-speed	m3/h	279	418	558	697	836	940	1115	1394	1673	1952
	Low-speed	m3/h	170	255	340	425	510	618	680	850	1020	1190
Cooling Capacity	High-speed	W	2050	2920	3900	4680	5500	6350	7390	9250	10850	12670
	Middle-speed	W	1845	2628	3510	4212	4950	5715	6651	8325	9765	11403
	Low-speed	W	1435	2044	2730	3276	3850	4445	5173	6475	7595	8869
Heating Capacity	High-speed	W	3260	4790	6550	7850	9170	10680	12650	15980	18490	21510
Power Input	High-speed(12Pa)	W	36	50	60	74	93	112	130	147	183	221
	High-speed(30Pa)	W	43	57	70	84	105	121	151	169	206	245
	High-speed(50Pa)	W	48	64	81	97	114	131	169	204	243	291
Noise	High-speed(12Pa)	dB(A)	37	39	41	43	45	46	46	48	50	52
	High-speed(30Pa)	dB(A)	40	42	44	46	47	48	48	50	52	54
	High-speed(50Pa)	dB(A)	42	44	46	47	49	50	50	52	54	56
Fan			Front Curved Multi-wing Galvanized Steel Plate Centrifugal Double-suction Impeller									
Motor	Type		High Precision Low Noise Ball Bearing Single-phase Capacitor Motor									
	Insulation Grade		B									
	Power Supply		220V,50Hz,1Ph									
Coil	Type		Copper Tube Mechanical Expansion of Shutter Type Aluminum Fins									
	Working Pressure		≤1.6Mpa									
Inlet and Outlet Pipe Diameters			3/4 " Inner Groove									
Condensate Pipe			3/4 " External Groove									
Water Flow		kg/h	350	540	690	840	940	1090	1290	1580	1840	2240
Water Resistance		kPa	15	19	30	22	40	25	35	35	40	50
Net Weight		kg	21	25	28	29	31	35	39	46	50	52

★ Remarks

1. Cooling: water-return temperature: 7/12℃; air-return working conditions: dry-bulb temperature for inlet air: 27℃; wet-bulb temperature for inlet air: 19.5℃;
2. Heating: water temperature: 60℃; the water amount is same as that of cooling condition; air-return conditions: dry-bulb temperature for inlet air: 21℃;
3. These air flow is tested with nylon filter;
4. The air amount in the table is measured in the dry-status operation of the unit at the dry-bulb temperature of 20℃;
5. The noises in the table are measured in the semi-anechoic room with the background noise of 11.5dB(A);
6. Specifications and parameters will be subject to changes due to products improvement without further notice. Please refer to the nameplate of the unit.

Performance Parameters

Cooling Capacity Correction Coefficient at Different Conditions (Horizontal Concealed Series)

Dry-bulb / Wet-bulb	21℃		22℃		23℃		24℃		25℃		26℃		27℃		28℃	
	Total Capacity	Sensible Capacity	Total Capacity	Sensible Capacity	Total Capacity	Sensible Capacity	Total Capacity	Sensible Capacity	Total Capacity	Sensible Capacity	Total Capacity	Sensible Capacity	Total Capacity	Sensible Capacity	Total Capacity	Sensible Capacity
14.5℃	0.59	0.69														
15.5℃			0.65	0.76												
16.5℃					0.72	0.83										
17℃							0.79	0.89								
18℃									0.87	0.94						
19℃											0.87	0.99	0.99	1.04		
19.5℃											0.95	0.97	1.00	1.00		
20℃													1.03	0.98	1.04	1.06
21℃															1.12	1.01

Heating Capacity Correction at Different Inlet-water Temperature

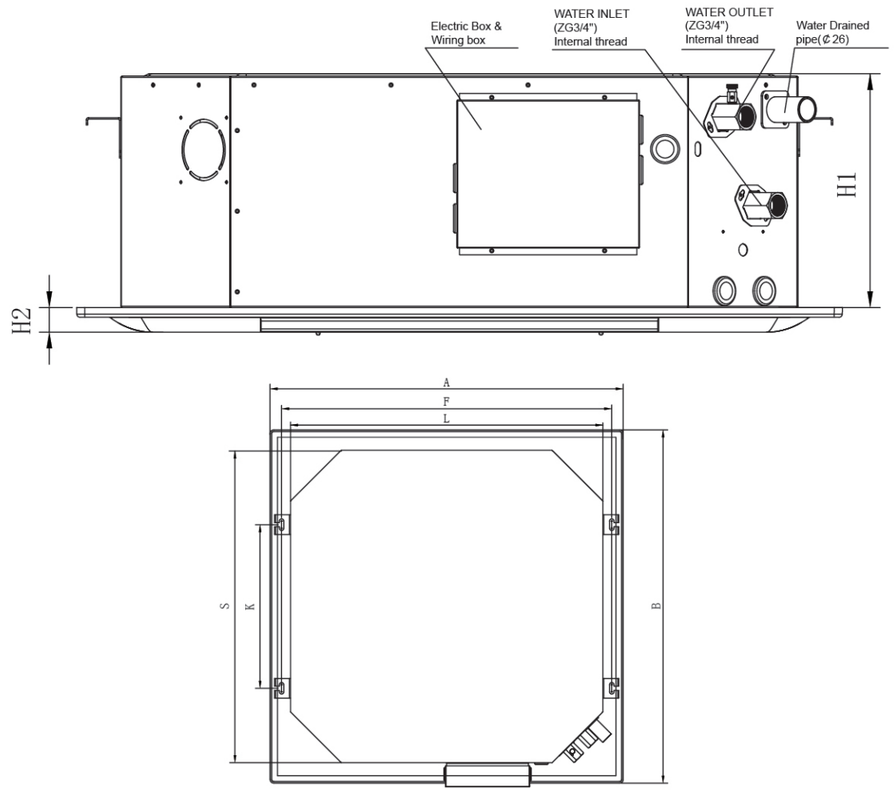
Model	Water Flow (m^3/h)	Inlet-air Dry-bulb Temp. 21℃ Inlet-water Temp. (℃)						
		40	45	50	55	60	70	80
HFP-34WA	0.24	1573	1986	2401	2815	3229	4057	4884
	0.36	1689	2132	2576	3021	3465	4353	5242
	0.48	1750	2211	2672	3132	3893	4514	5435
HFP-51WA	0.36	2256	2840	3432	4025	4619	5795	6982
	0.48	2363	2985	3607	4229	4852	6087	7332
	0.60	2441	3072	3715	4356	5498	6272	7555
HFP-68WA	0.48	3132	3955	4779	5601	6425	8071	9717
	0.72	3312	4186	5059	5933	6505	8543	10288
	0.96	3413	4307	5199	6104	6996	8793	10580
HFP-85WA	0.48	3416	4320	5216	6111	7006	8807	10607
	0.72	3669	4632	5595	6558	7522	9458	11385
	0.96	3805	4807	5800	6802	8804	9799	11804
HFP-102WA	0.60	4373	5519	6727	7841	8966	11215	13454
	0.90	4665	5883	7154	8351	9559	11934	14328
	1.20	4811	6081	7383	8612	9882	12339	14797
HFP-119WA	0.90	5193	6555	8081	9278	10648	13371	16103
	1.20	5387	6802	8216	9632	11046	13876	16714
	1.50	5629	7105	8579	10063	11538	14497	17455
HFP-136WA	1.20	6286	7948	9598	11249	12910	16212	19524
	1.50	6493	8199	9904	11610	13315	16726	20147
	1.80	6635	8374	10112	11861	13599	17086	20573
HFP-170WA	1.20	6893	8707	10520	12333	14146	17763	21389
	1.50	7148	9028	10907	12786	14665	18424	22183
	1.80	7328	9255	11181	13107	16034	18887	22739
HFP-204WA	1.80	8745	11040	13345	15640	17045	22544	27144
	2.10	8919	11262	13615	15959	18303	23000	27687
	2.40	9055	11437	13819	16201	18584	23348	28112
HFP-238WA	1.80	9384	11853	14323	16793	19262	24201	29140
	2.10	9588	12112	14635	17159	19682	24729	29775
	2.40	9747	12311	14876	17441	23560	25136	30263

Heating Performance Amendment at Different Conditions

Dry-bulb Temp.	18℃	19℃	20℃	21℃	22℃	23℃	24℃
Amendment Parameters	1.07	1.06	1.02	1.00	1.00	0.93	0.92

Dimensions

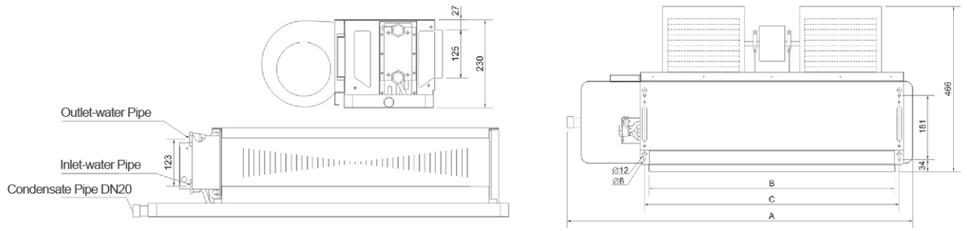
Cassette Fan Coil Unit



Model			HFP-34K4M	HFP-51K4M	HFP-68K4M	HFP-85K4M	HFP-102K4M	HFP-136K4M	HFP-170K4M	HFP-204K4M	HFP-238K4M
Size		L×S×H1 mm	592*592*240			750*750*240		840*840*240	840*840*290		
Panel Size		A×B×H2 mm	650*650*30			850*850*30		950*950*30	950*950*30		
Derrick Corner		K×F mm	410*635			420*798		440*888	440*888		
Net weight	Unit	kg	17	18	18	22	23	25	26	27	27
	Panel		2.2			4.2		5.0			

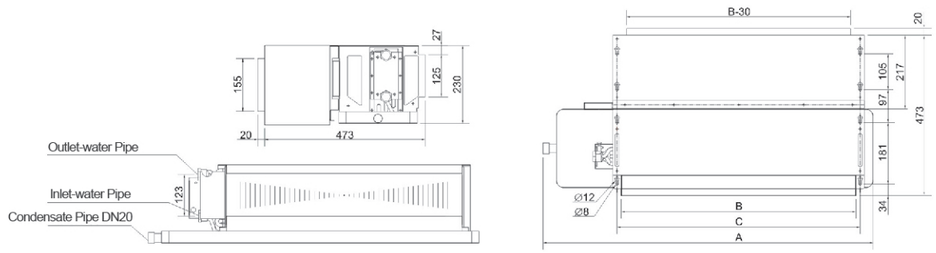
Dimensions

Horizontal Concealed Series



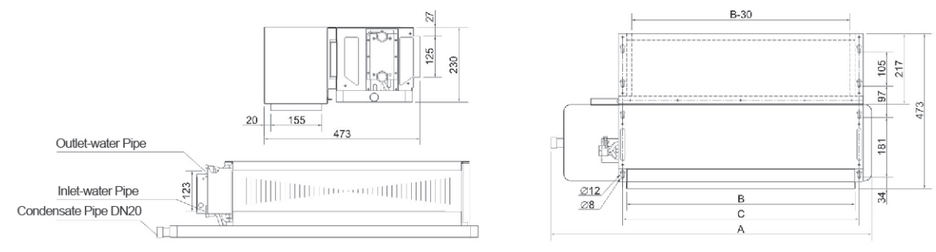
Size \ Model	HFP-34WA	HFP-51WA	HFP-68WA	HFP-85WA	HFP-102WA	HFP-119WA	HFP-136WA	HFP-170WA	HFP-204WA	HFP-238WA
A	770	870	970	1070	1170	1270	1370	1670	1870	2170
B	445	525	695	780	905	990	1100	1380	1560	1880
C	470	550	720	805	930	1015	1125	1405	1585	1905

Horizontal Concealed Series (Rear Return Air)



Size \ Model	HFP-34WA	HFP-51WA	HFP-68WA	HFP-85WA	HFP-102WA	HFP-119WA	HFP-136WA	HFP-170WA	HFP-204WA	HFP-238WA
A	770	870	970	1070	1170	1270	1370	1670	1870	2170
B	445	525	695	780	905	990	1100	1380	1560	1880
C	470	550	720	805	930	1015	1125	1405	1585	1905

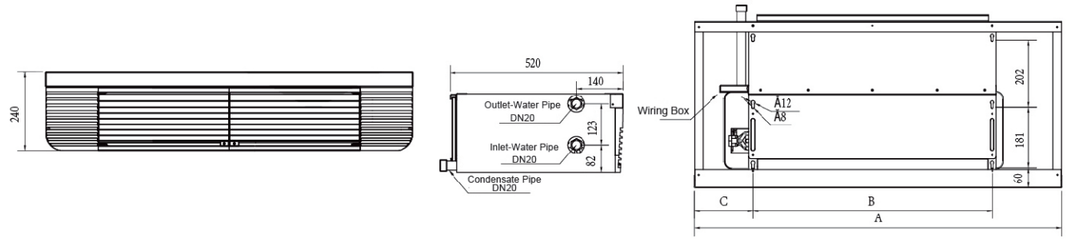
Horizontal Concealed Series (Bottom Return Air)



Size \ Model	HFP-34WA	HFP-51WA	HFP-68WA	HFP-85WA	HFP-102WA	HFP-119WA	HFP-136WA	HFP-170WA	HFP-204WA	HFP-238WA
A	770	870	970	1070	1170	1270	1370	1670	1870	2170
B	445	525	695	780	905	990	1100	1380	1560	1880
C	470	550	720	805	930	1015	1125	1405	1585	1905

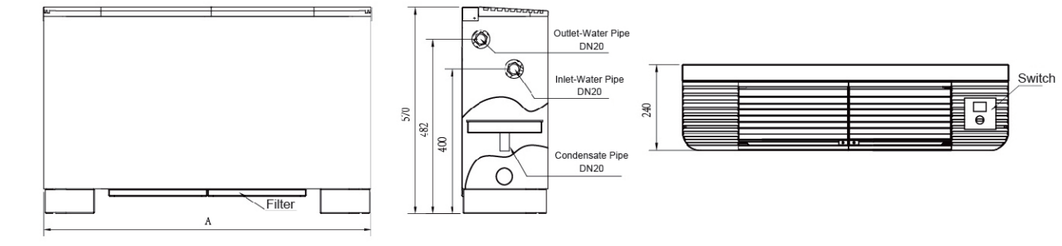
Dimensions

HFP-WM Horizontal Unconcealed Fan Coil Unit



Size \ Model	HFP-34WM	HFP-51WM	HFP-68WM	HFP-85WM	HFP-102WM	HFP-119WM	HFP-136WM	HFP-170WM	HFP-204WM	HFP-238WM
A	790	940	1100	1140	1260	1330	1450	1760	1920	1920
B	470	550	720	805	930	1015	1125	1405	1585	1585
C	225	245	224	190	215	230	217	187	207	207

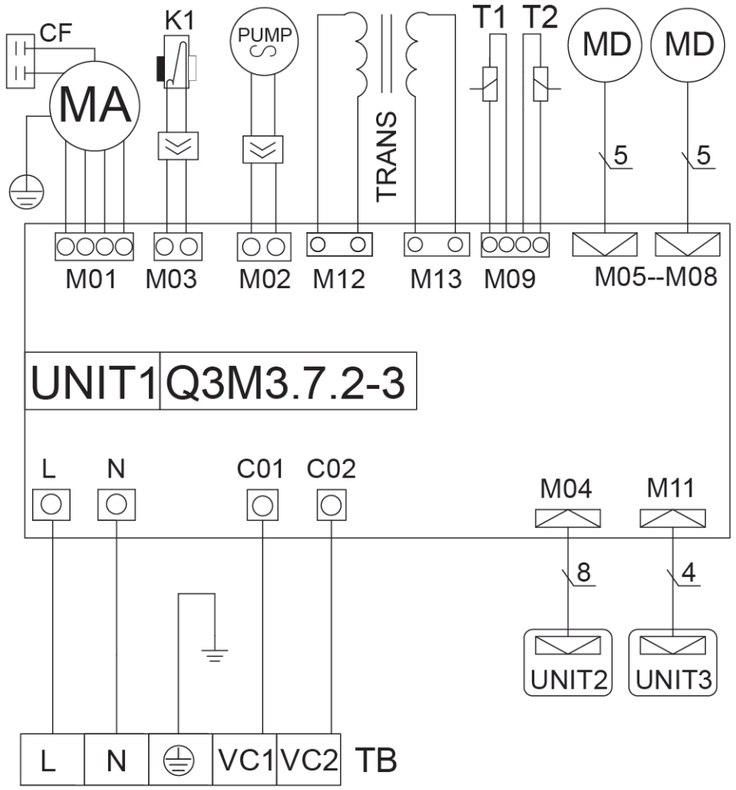
HFP-LM Vertical Unconcealed Fan Coil Unit



Size \ Model	HFP-34LM	HFP-51LM	HFP-68LM	HFP-85LM	HFP-102LM	HFP-119LM	HFP-136LM	HFP-170LM	HFP-204LM	HFP-238LM
A	790	940	1100	1140	1260	1330	1450	1760	1920	1920

Wiring Diagram

Cassette Fan Coil Unit



ITEM	APELLATION
UNIT1	Indoor control board
UNIT2	Display board for receiving
UNIT3	Controller (Optional)
MA	Indoor fan
CF	Indoor fan capacitor
MD	Motor for swinging
TRANS	Transformer
T1/T2	Temperature sensor
PUMP	Drain pump
K1	Water level switch
TB	Terminal boards

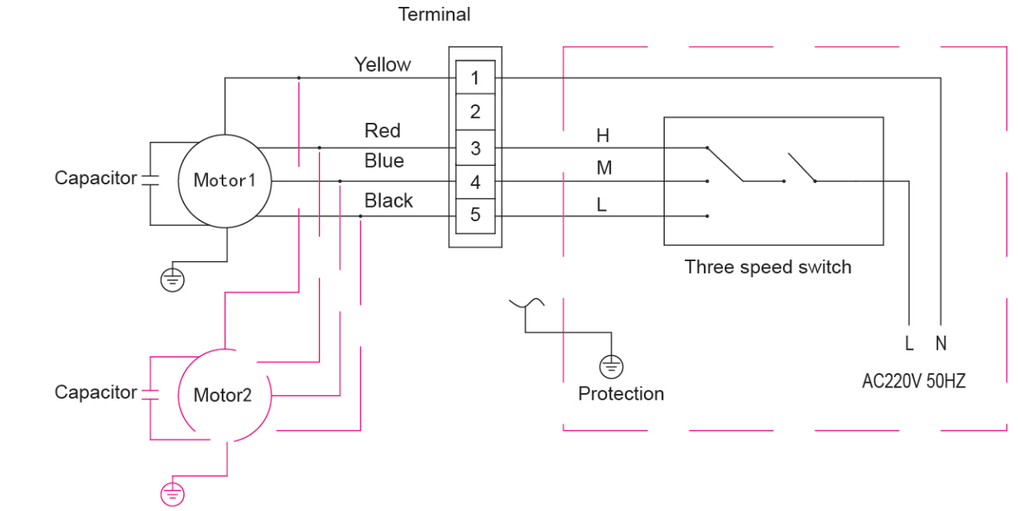
POWER SUPPLY: 220V ~ 50Hz

L--Connect to the Firewire of power supply
N--Connect to the Zeroline of power supply
VC1--Connect to water valve (valve open line)
VC2--Connect to water valve (valve close line)

For the water valve (2 line style) pls connect to"N""VC1"
For the water valve(3 line style) pls connect to"N""VC1""VC2"

Wiring Diagram

Unconcealed and Concealed Fan Coil Unit

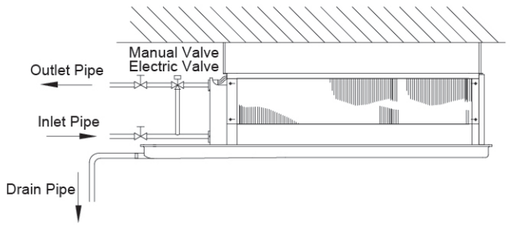


Warning: Make sure to shut off power prior to product maintenance to prevent any injury.
The connection wire should be made of copper, and use of other material may cause overheating or damage to the product.

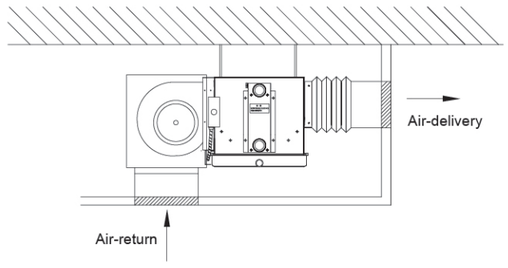
Installation and Maintenance

- Due cares shall be taken while handling the fan coil units without allowing heavy weights suspend on it. Prohibit from transporting the units with hands or fingers in contact with the impeller or volute casing.
- During the installation, all components shall be kept intact, including the fan, coils, shell and insulation layers, to ensure the performance of the unit.
- The fan coil unit shall be installed in such way to ensure the balance of the unit's main body. The unit shall be firmly fixed to prevent resonance from the environment. Meanwhile, a maintenance space of more than 600mm shall be reserved around the unit.
- The unit shall only be subject to its own weight but not other external forces from coils, water pipes and other matters.
- Pipes shall be connected in such way to prevent any deformation or twisting of the connectors of the unit.
- The connections of the water-inlet, water-return and condensation pipes shall be sealed tightly.
- The pipelines must be subject to heat insulation treatment and valves shall be installed on the water-inlet and water-return pipelines.
- The condensation water pipes shall be maintained unobstructed and the drainage slope shall be higher than 0.005 degree.
- The power supply of the fan coil unit shall be 220V±5% and 50Hz±5%. Wires of the unit shall be strictly distinguished and connected according to the wiring diagram. The bolts is to provide electricity grounding.
- Prohibit from sharing the same wired temperature controller with two or more fan coil unit.
- After completing the installation, the fan impeller shall be rotated manually to check for friction noise. Only if no such noise is heard, can the unit be operated normally.
- Before starting the commissioning of the system, its water pipes shall be cleaned to prevent existence of any obstructions or blockage.
- For the initial running or cold-hot water exchanging of the fan coil unit, its vent valves shall be opened to discharge the air until water flows out and the valve shall be closed . Otherwise, heat exchange performance will be significantly affected.
- The cold water temperature of the unit shall not be lower than 5℃ (prevent condensation) and the hot water temperature shall not be higher than 65℃ (softened hot water), and the water shall be clean.
- The shell of the fan coil unit shall be cleaned with dry fabrics and the filters shall be cleaned regularly to ensure the heat exchange performance.
- If the unit is not being used during the winter seasons, anti-freezing measures must be taken or the water in the unit should completely drained to prevent the coils from being frozen.
- Any malfunction of the unit should be repaired by professional technicians.

Water Pipe Installation



Air Duct Installation



Routine Maintenance

We recommend customers to record the daily operation data and perform regular maintenance services.
1. Before putting the equipment into operation for the first time, the terminal equipment, water system and other components shall be checked.
2. During the operation of the equipment, the following maintenance procedures are recommended.

Content	Standard maintenance intervals			Remarks
	Month	Season	6-month	
1. Check the power supply cables (from the power distribution cabinet to the unit) if loosed or damaged			★	
2. Check the normality of condensation water drainage		★	●	Whether or not the pipelines are installed according to requirements. Whether or not the pipelines are blocked. Whether or not the drainage is smooth. Whether or not there is any overflow, and so on.
3. Check for abnormal noises during unit operation	★		●	Such as sharp frictions, roars, obvious impact noise, resonance and electromagnetic sounds (which may annoy persons)
4. Check if the air filter is dirty or stuffed with dusts. Clean or replace it if necessary.	★	●		

Notes: ① *Must be maintained or replaced, Whether or not be maintained according to actual conditions;
② The daily or monthly check items shall be recorded by users;
③The consumable parts and materials shall be replaced according to the service period or operation time of the unit. The long-term using and process parts shall be replaced according to the operation time. Normal using shall be replaced according to service periods.
④ A comprehensive preventive maintenance shall be conducted at an interval of one year or 1,000 hours. For the units used under harsh conditions, preventive maintenance shall be conducted on the monthly basis according to inspections.

3. For the units that are not used for a long time, the following maintenance procedures are recommended:
If the unit is not used for a long time, the water must be fully drained and its power supply must be shut down.
Before re-starting the unit, the power supply line (from power distribution cabinet to the unit) shall be checked for loosening and damage and the unit shall be subject to comprehensive inspection for good conditions.
If necessary, the maintenance procedures when the equipment starts to run for the first time shall be followed.

★ Remarks

1. User's maintenance: necessary inspection items: ● recommended inspection items: ★
2. Consumable parts required for maintenance shall be purchased by the user from the designated dealers or designated after-sales service or hisense.
3. The interval of the maintenance is determined according to the normal operation of the equipment, which may be adjusted reasonably in case of harsh operation conditions.