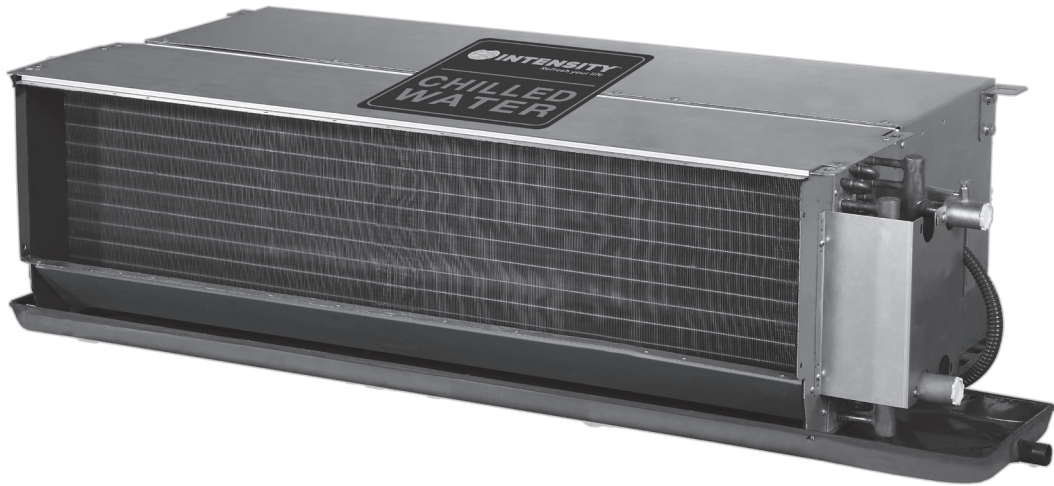




INTENSITY[®]
AIR CONDITIONING



FAN & COIL UNIT

1, 1.5 y 2 Tons.

IFCH404KF-1, IFCH406KF-1, IFCH408KF-1.

OWNER'S INSTALLATION MANUAL

Thank you very much for purchasing our air conditioner,
Before using your air conditioner, please read this manual carefully and keep it for future reference.



Contents

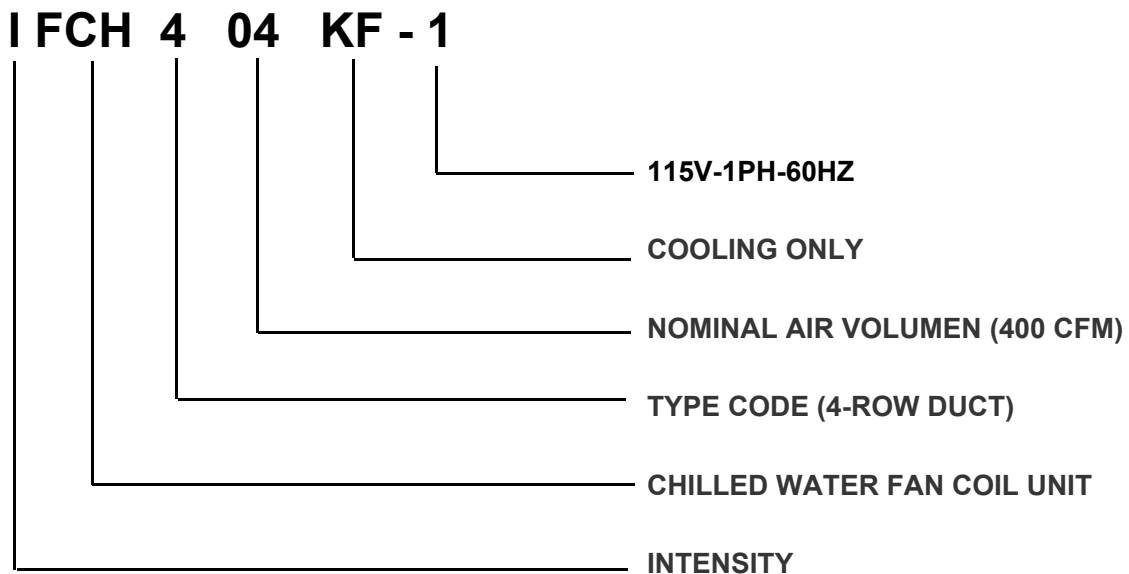
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1. Introduction

Fan coil unit is a kind of compound device which assemble fan and heat exchanger (coil) together. Fan coil with fresh air supply system is a main type of central air-conditioner system, so it is an important component of AC devices. A cooling (heating) supply system usually consists of fan coil terminals and chilled water system (heated water system).

Intensity[®] fan coil is designed and manufactured on the base of advanced technology, and utilize qualified galvanized iron as material. Due to its supper-thin design, it has such advantages: beautiful outlook, space saving, easy installation, etc. And the most obvious advantage is that it can decrease the outlet air Temp-difference as low as possible to make room more comfortable, as well as don't decrease cooling capacity output. For the large air flow volume design, it can increase room ventilation frequency, supply more flesh air, and balance room temperature distribution. Benefiting from adoption of advanced material and technology, it can effectively decrease the running noise and keep running smoothly. With the advantages above, it can be widely applied in market, hospital, office building, hotel, airport, etc.

2. Nomenclature



3. Product Schedule

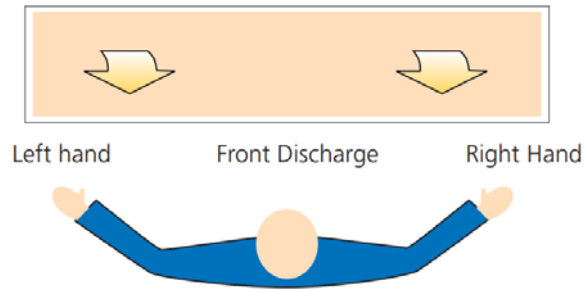
Model	External Static pressure (Pa)	Air volume (CFM)	Power supply
IFCH404KF-1	30	400	115V-1Ph-60Hz
IFCH406KF-1		600	
IFCH408KF-1		800	

4. External Appearance

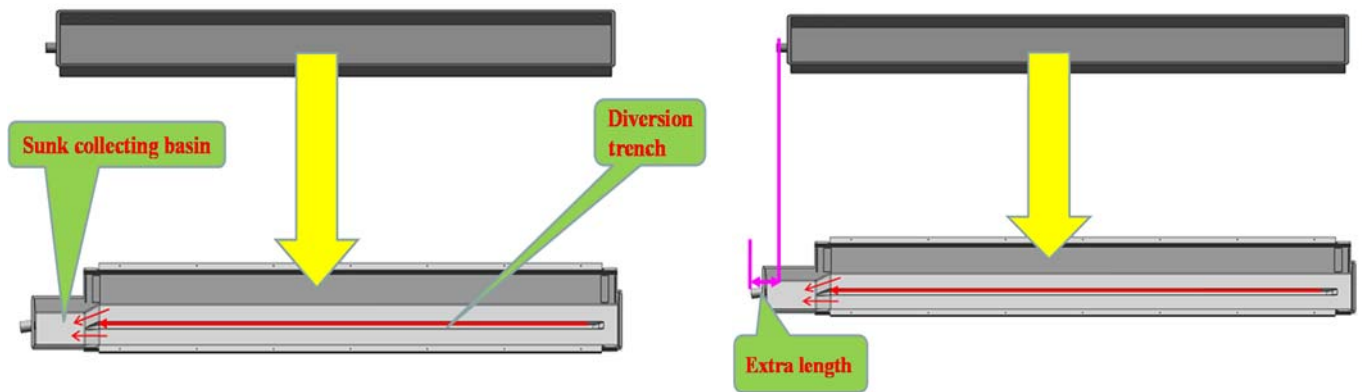


5. Features

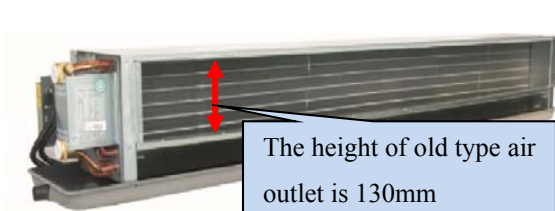
1. **Wider external static pressure supplying.**
30Pa ESP is standard, 12Pa can be customized.
2. **Left or right hand piping connections, field convertible.**



3. **Quiet operation**
A patent design is able to prevent abnormal noise caused by blowing fins.
4. **Superior air distribution**
As the conditioned air can be distributed to every corner of the area by air duct, this will ensure more pleasant living environment, thus provide extra comfort to the occupants.
5. **Fresh air supply makes life healthier and more comfortable**
6. **Air return plenum**
Units with air return plenum is standard, units without air return plenum can be customized.
7. **V type drain pan**
Diversion trench and sunk collecting basin design making better drainage. Longer length of V type drain pan can better receive the drain ,water dripping from the water piping and valve connection.



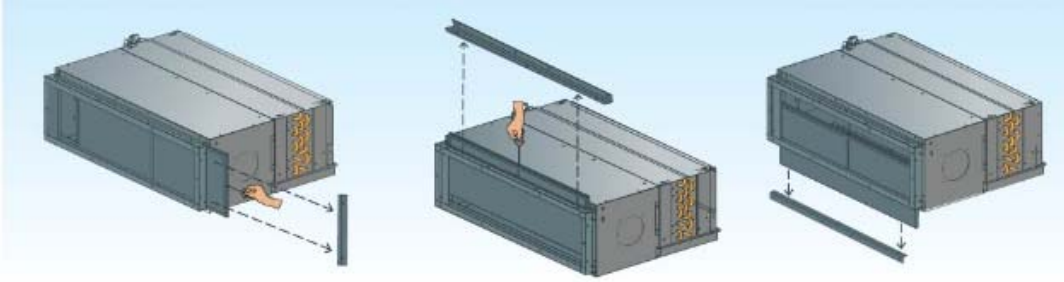
The performance is improved for larger air outlet area



8. Washable filter

Iron frame filter is standard, aluminum frame filter can be customized.

Multi-direction pull-out filter can be customized.



9. Optional wired controller

Optional wired controller offers simple and flexibility in controlling the unit.

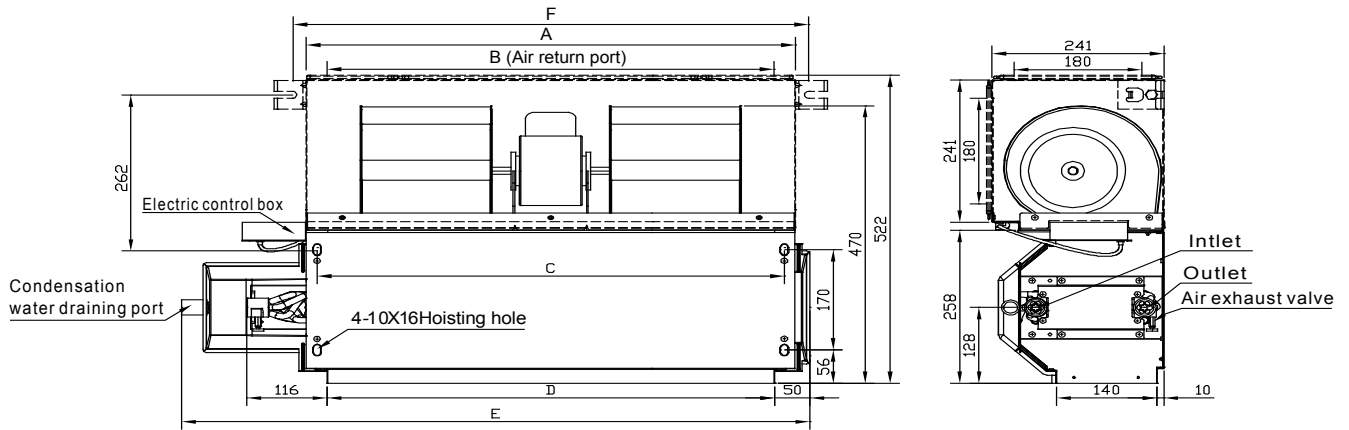
6. Specifications

Model			IFCH404KF-1	IFCH406KF-1	IFCH408KF-1	
Air flow	H/M/L	m ³ /h	680/510/340	1020/765/510	1360/1020/680	
	H/M/L	CFM	400/300/200	600/450/300	800/600/400	
External Static pressure		Pa	30	30	30	
Cooling	Capacity	H/M/L	kW	4.4/3.72/3.22	6.2/5.38/4.65	8.8/7.43/6.57
	Water flow rate	H	l/h	757	1066	1514
	Water pressure drop	H	kPa	8.1	15.4	12.3
Heating	Capacity	H/M/L	kW	7.1/6.11/5.33	10.5/9.03/7.77	14.5/12.38/10.88
	Water pressure drop	H	kPa	6.9	12.7	10
Power supply		V/ph/Hz	115/1/60			
Power input	H	W	80	110	155	
Sound pressure level	H/M/L	dB(A)	38/35/29	41/36/31	42/37/32	
Fan motor	Type		Low noise 4-speed fan motor			
	Quantity		1	1	2	
Fan	Type		Centrifugal, forward-curved Blades			
	Quantity		2	2	4	
Coil	Row		4			
	Max. Working pressure		MPa	1.6		
	Diameter		mm	Φ9.52		
Body	Dimensions	W×H×D	mm	941×241×522	1161×241×522	1461×241×522
	Net weight		kg	20.7	23.5	32.9
	Packing	W×H×D	mm	990×260×550	1210×260×550	1510×260×550
	Gross weight		kg	23.1	26.5	36.5
Pipe connection	Water inlet/outlet pipe		Inch	RC3/4		
	Drain pipe		mm	ODΦ24		

Note:

1. H: high speed; M: medium speed; L: low speed
2. The data is based on 30Pa external static pressure.
3. Cooling conditions: entering water 7°C, temperature rise 5°C, entering air temperature 27°C DB, 19°CWB.
Heating conditions: entering water 50°C, enter air temperature 20°C, the same water flow as the cooling conditions.
4. Noise is tested in semi-anechoic test room.

7. Dimensions



Unit: mm

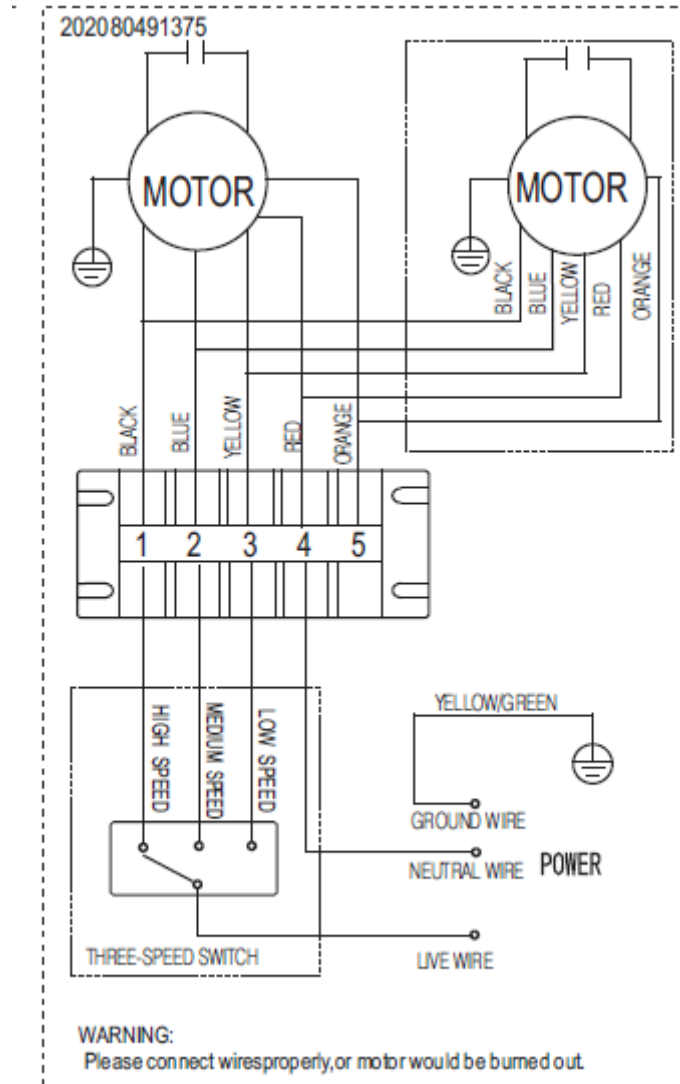
Model Size	IFCH404KF-1	IFCH406KF-1	IFCH408KF-1
A	745	965	1265
B	685	905	1205
C	713	933	1233
D	685	905	1205
E	941	1161	1461
F	783	1003	1303

Note:

- The above figure is only an instance, which would be different from the one that you purchase.
- The dotted line in the figure is the dimension for air return plenum.
- Units with air return plenum is standard, units without air return plenum can be customized.

8. Wiring Diagrams

IFCH404KF-1, IFCH406KF-1, IFCH408KF-1 (reserved high fan speed).



Note:

- Black: super high fan speed; Orange: high fan speed; Blue: medium fan speed; Yellow: low fan speed.
- Terminal 5 connects with reserved speed.
- Please connect wires properly, or the motor would be burned-out.

		19	5.93	2.92	1.28	8.93	5.92	3.81	1.28	8.92	5.94	4.7	1.28	8.96	5.99	5.59	1.29	9.1	6.42	6.42	1.38	10.23	
		20	7.24	2.86	1.56	12.5	7.19	3.74	1.55	12.4	7.17	4.62	1.55	12.3	7.12	5.47	1.54	12.2	6.85	6.24	1.48	11.39	
	5	15	2.85	2.85	0.49	1.11	3.7	3.7	0.64	2.29	4.52	4.52	0.78	3.83	5.34	5.34	0.92	5.11	6.14	6.14	1.06	6.48	
		17	3.12	2.9	0.54	1.3	3.77	3.77	0.65	2.46	4.53	4.53	0.78	3.83	5.34	5.34	0.92	5.12	6.15	6.15	1.06	6.49	
		19	5.12	2.62	0.88	4.75	5.14	3.52	0.89	4.78	5.26	4.45	0.91	4.98	5.6	5.44	0.97	5.54	6.15	6.15	1.06	6.49	
		20	6.45	2.58	1.11	7.03	6.41	3.46	1.11	6.96	6.43	4.35	1.11	7	6.41	5.21	1.11	6.95	6.44	6.08	1.11	7.01	
	6	15	2.55	2.55	0.37	0.81	3.41	3.41	0.49	1.1	4.25	4.25	0.61	2.01	5.07	5.07	0.73	3.33	5.88	5.88	0.85	4.4	
		17	2.7	2.7	0.39	0.86	3.45	3.45	0.5	1.12	4.25	4.25	0.61	2.01	5.07	5.07	0.73	3.33	5.88	5.88	0.85	4.4	
		19	4.23	2.3	0.61	2	4.32	3.23	0.62	2.16	4.74	4.26	0.68	2.84	5.24	5.24	0.75	3.57	5.88	5.88	0.85	4.4	
		20	5.58	2.27	0.8	4.01	5.56	3.15	0.8	3.98	5.63	4.06	0.81	4.07	5.8	4.99	0.83	4.29	6.09	5.96	0.88	4.66	
13	3	15	2.57	2.57	0.74	3.46	3.41	3.41	0.98	5.64	4.23	4.23	1.22	8.13	5.04	5.04	1.45	10.9	5.84	5.84	1.68	14.11	
		17	2.65	2.65	0.76	3.66	3.41	3.41	0.98	5.64	4.23	4.23	1.22	8.13	5.04	5.04	1.45	10.9	5.85	5.85	1.68	14.12	
		19	4.5	2.4	1.3	9.04	4.54	3.31	1.31	9.16	4.67	4.23	1.34	9.6	5.09	5.09	1.47	11.1	5.85	5.85	1.68	14.13	
		20	5.83	2.35	1.68	14.0	5.79	3.23	1.67	13.8	5.81	4.12	1.67	13.9	5.77	4.98	1.66	13.8	5.95	5.91	1.71	14.55	
		4	15	2.29	2.29	0.49	1.09	3.13	3.13	0.68	2.83	3.96	3.96	0.86	4.45	4.78	4.78	1.03	6.11	5.58	5.58	1.21	7.96
			17	2.32	2.32	0.5	1.11	3.13	3.13	0.68	2.84	3.96	3.96	0.86	4.45	4.78	4.78	1.03	6.12	5.59	5.59	1.21	7.97
			19	3.69	2.12	0.8	3.94	3.77	3.04	0.81	4.09	4.21	4.07	0.91	4.94	4.8	4.8	1.04	6.17	5.59	5.59	1.21	7.97
			20	5	2.06	1.08	6.6	4.97	2.95	1.07	6.53	5.05	3.86	1.09	6.7	5.22	4.79	1.13	7.09	5.66	5.66	1.22	8.15
		5	15	-	-	-	-	2.85	2.85	0.49	1.08	3.69	3.69	0.64	2.42	4.51	4.51	0.78	3.77	5.32	5.32	0.92	5.01
			17	-	-	-	-	2.85	2.85	0.49	1.08	3.69	3.69	0.64	2.43	4.51	4.51	0.78	3.78	5.32	5.32	0.92	5.01
			19	-	-	-	-	3.21	2.84	0.55	1.53	3.84	3.84	0.66	2.71	4.52	4.52	0.78	3.79	5.33	5.33	0.92	5.01
			20	-	-	-	-	4.13	2.66	0.71	3.2	4.35	3.61	0.75	3.52	4.79	4.64	0.83	4.19	5.36	5.36	0.93	5.07
		6	15	-	-	-	-	2.54	2.54	0.37	0.77	3.4	3.4	0.49	1.08	4.23	4.23	0.61	2.15	5.05	5.05	0.73	3.32
			17	-	-	-	-	2.54	2.54	0.37	0.77	3.4	3.4	0.49	1.08	4.24	4.24	0.61	2.15	5.06	5.06	0.73	3.32
			19	-	-	-	-	2.75	2.69	0.4	0.83	3.49	3.49	0.5	1.14	4.24	4.24	0.61	2.16	5.06	5.06	0.73	3.32
			20	-	-	-	-	3.26	2.37	0.47	1	3.82	3.44	0.55	1.51	4.42	4.42	0.64	2.45	5.09	5.09	0.73	3.37
	15	3	15	-	-	-	-	2.57	2.57	0.74	3.42	3.4	3.4	0.98	5.52	4.22	4.22	1.21	7.96	5.02	5.02	1.45	10.73
			17	-	-	-	-	2.57	2.57	0.74	3.42	3.4	3.4	0.98	5.52	4.22	4.22	1.21	7.96	5.03	5.03	1.45	10.74
			19	-	-	-	-	2.7	2.67	0.78	3.74	3.41	3.41	0.98	5.55	4.22	4.22	1.22	7.97	5.03	5.03	1.45	10.75
			20	-	-	-	-	3.53	2.46	1.02	5.88	3.75	3.41	1.08	6.52	4.28	4.28	1.23	8.15	5.03	5.03	1.45	10.75
		4	15	-	-	-	-	2.28	2.28	0.49	1.09	3.12	3.12	0.67	2.86	3.95	3.95	0.85	4.36	4.76	4.76	1.03	5.98
			17	-	-	-	-	2.28	2.28	0.49	1.09	3.13	3.13	0.68	2.87	3.95	3.95	0.85	4.36	4.76	4.76	1.03	5.99
			19	-	-	-	-	2.35	2.35	0.51	1.17	3.13	3.13	0.68	2.87	3.95	3.95	0.85	4.37	4.77	4.77	1.03	5.99
			20	-	-	-	-	2.76	2.2	0.6	2.07	3.32	3.27	0.72	3.22	3.98	3.98	0.86	4.42	4.77	4.77	1.03	6
		5	15	-	-	-	-	-	-	-	2.84	2.84	0.49	1.09	3.68	3.68	0.64	2.5	4.5	4.5	0.78	3.71	
			17	-	-	-	-	-	-	-	2.84	2.84	0.49	1.09	3.68	3.68	0.64	2.5	4.5	4.5	0.78	3.71	
			19	-	-	-	-	-	-	-	2.84	2.84	0.49	1.09	3.68	3.68	0.64	2.5	4.5	4.5	0.78	3.71	
			20	-	-	-	-	-	-	-	2.95	2.95	0.51	1.22	3.69	3.69	0.64	2.53	4.5	4.5	0.78	3.71	
		6	15	-	-	-	-	-	-	-	2.54	2.54	0.37	0.73	3.39	3.39	0.49	1.09	4.22	4.22	0.61	2.24	
			17	-	-	-	-	-	-	-	2.54	2.54	0.37	0.73	3.39	3.39	0.49	1.09	4.22	4.22	0.61	2.24	
			19	-	-	-	-	-	-	-	2.54	2.54	0.37	0.73	3.39	3.39	0.49	1.1	4.23	4.23	0.61	2.25	
			20	-	-	-	-	-	-	-	2.6	2.6	0.37	0.75	3.4	3.4	0.49	1.1	4.23	4.23	0.61	2.25	

4-row Duct Heating capacity

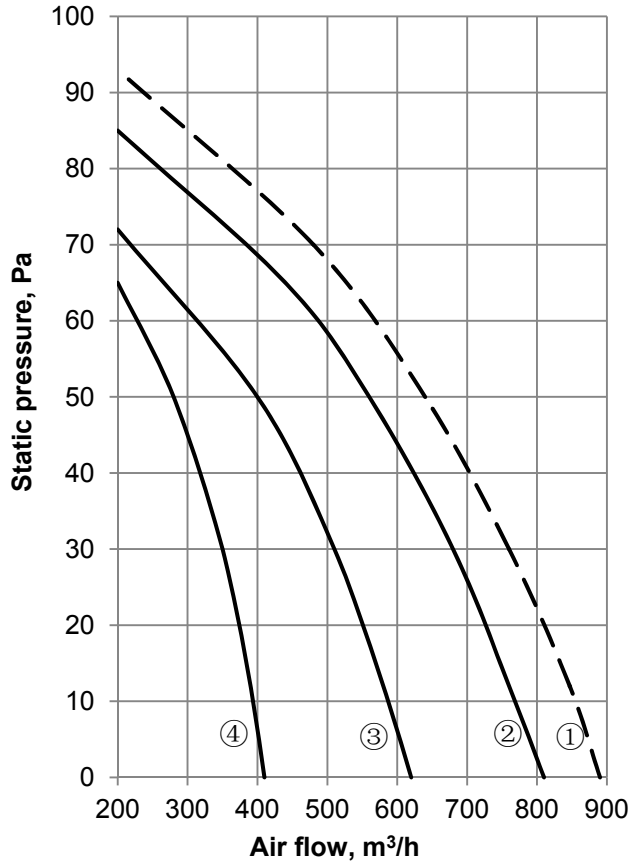
IFCH404KF-1													
EWT	ΔT	Indoor temperature (D.B.)											
		16			18			20			22		
		TH	WF	WPD	TH	WF	WPD	TH	WF	WPD	TH	WF	WPD
40	6	5.8	0.84	8.62	5.22	0.75	7.2	4.65	0.67	5.9	4.09	0.59	4.72
	8	5.53	0.6	4.86	4.95	0.54	4.02	4.38	0.47	3.26	3.82	0.41	2.58
	10	5.25	0.45	3.05	4.67	0.4	2.5	4.1	0.36	2	3.53	0.31	1.56
	12	4.97	0.36	2.05	4.39	0.32	1.66	3.81	0.27	1.31	3.23	0.23	0.97
45	6	7.18	1.04	12.2	6.59	0.95	10.53	6.02	0.87	8.99	5.45	0.79	7.57
	8	6.91	0.75	6.97	6.33	0.69	5.99	5.76	0.62	5.08	5.19	0.56	4.24
	10	6.64	0.58	4.44	6.06	0.53	3.8	5.49	0.48	3.2	4.91	0.43	2.65
	12	6.37	0.46	3.04	5.78	0.42	2.58	5.21	0.38	2.16	4.63	0.33	1.77
50	6	8.55	1.24	16.23	7.96	1.15	14.33	7.38	1.07	12.56	6.81	0.99	10.9
	8	8.29	0.9	9.34	7.7	0.84	8.23	7.12	0.77	7.18	6.55	0.71	6.21
	10	8.03	0.7	6.02	7.44	0.65	5.28	6.86	0.6	4.59	6.28	0.55	3.95
	12	7.76	0.56	4.16	7.17	0.52	3.63	6.59	0.48	3.14	6.01	0.43	2.69
55	6	9.93	1.44	20.69	9.33	1.35	18.57	8.75	1.27	16.56	8.16	1.18	14.68
	8	9.67	1.05	11.98	9.08	0.99	10.72	8.49	0.92	9.54	7.91	0.86	8.44
	10	9.41	0.82	7.77	8.82	0.77	6.94	8.23	0.72	6.16	7.65	0.67	5.42
	12	9.14	0.66	5.41	8.55	0.62	4.82	7.97	0.58	4.26	7.38	0.54	3.74
60	6	11.3	1.64	25.55	10.7	1.56	23.21	10.11	1.47	20.99	9.52	1.38	18.89
	8	11.05	1.2	14.85	10.45	1.14	13.46	9.85	1.07	12.15	9.27	1.01	10.92
	10	10.79	0.94	9.67	10.19	0.89	8.75	9.6	0.84	7.89	9.01	0.79	7.07
	12	10.53	0.76	6.77	9.93	0.72	6.11	9.34	0.68	5.49	8.75	0.64	4.91

IFCH406KF-1													
EWT	ΔT	Indoor temperature (D.B.)											
		16			18			20			22		
		TH	WF	WPD	TH	WF	WPD	TH	WF	WPD	TH	WF	WPD
40	6	8.63	1.25	17.44	7.78	1.12	14.56	6.94	1	11.93	6.1	0.88	9.55
	8	8.25	0.89	9.82	7.4	0.8	8.13	6.55	0.71	6.6	5.71	0.62	5.21
	10	7.85	0.68	6.16	7	0.61	5.06	6.15	0.53	4.05	5.31	0.46	3.15
	12	7.44	0.54	4.13	6.59	0.47	3.35	5.73	0.41	2.65	4.88	0.35	2.01
45	6	10.67	1.54	24.72	9.81	1.42	21.35	8.96	1.3	18.22	8.12	1.17	15.33
	8	10.29	1.12	14.1	9.43	1.02	12.12	8.58	0.93	10.28	7.74	0.84	8.59
	10	9.91	0.86	8.99	9.05	0.78	7.68	8.2	0.71	6.48	7.35	0.64	5.37
	12	9.51	0.69	6.14	8.65	0.62	5.21	7.8	0.56	4.36	6.95	0.5	3.58
50	6	12.71	1.84	32.95	11.84	1.71	29.1	10.98	1.59	25.5	10.13	1.47	22.13
	8	12.34	1.34	18.95	11.47	1.25	16.68	10.61	1.15	14.56	9.76	1.06	12.58
	10	11.96	1.04	12.2	11.09	0.96	10.7	10.23	0.89	9.3	9.38	0.81	8
	12	11.57	0.84	8.42	10.71	0.77	7.36	9.85	0.71	6.37	8.99	0.65	5.44
55	6	14.74	2.14	42.06	13.87	2.01	37.75	13	1.88	33.69	12.14	1.76	29.86
	8	14.38	1.56	24.33	13.5	1.47	21.78	12.63	1.37	19.39	11.77	1.28	17.14
	10	14	1.22	15.76	13.13	1.14	14.07	12.26	1.07	12.49	11.4	0.99	11
	12	13.62	0.99	10.96	12.75	0.92	9.76	11.88	0.86	8.64	11.02	0.8	7.58
60	6	16.78	2.44	51.99	15.89	2.31	47.24	15.02	2.18	42.73	14.15	2.05	38.47
	8	16.42	1.79	30.2	15.53	1.69	27.39	14.65	1.6	24.73	13.79	1.5	22.21
	10	16.05	1.4	19.65	15.16	1.32	17.79	14.29	1.24	16.03	13.42	1.17	14.36
	12	15.67	1.14	13.74	14.79	1.07	12.41	13.91	1.01	11.16	13.05	0.95	9.97

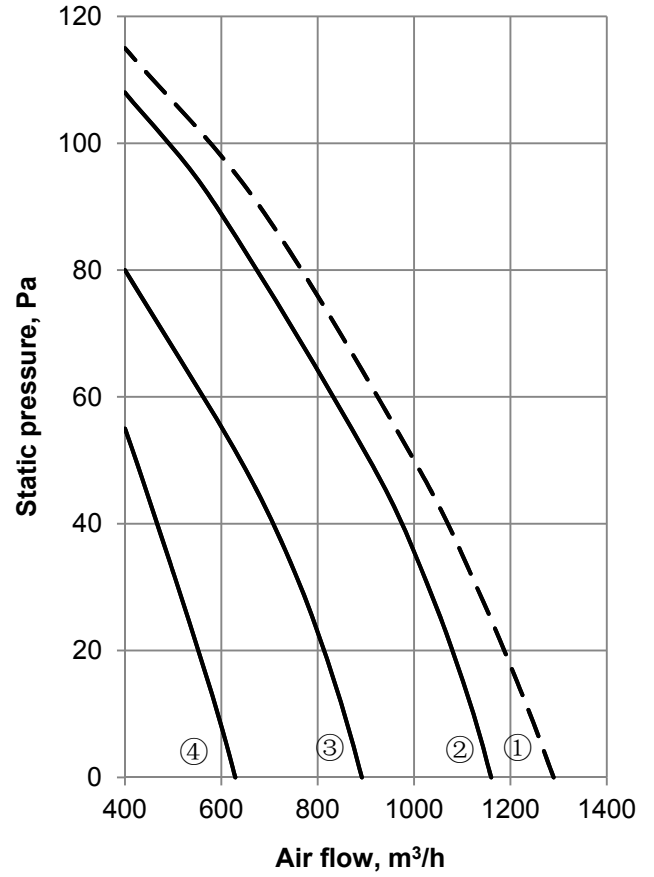
IFCH408KF-1													
EWT	ΔT	Indoor temperature (D.B.)											
		16			18			20			22		
		TH	WF	WPD	TH	WF	WPD	TH	WF	WPD	TH	WF	WPD
40	6	11.86	1.71	12.99	10.69	1.54	10.86	9.54	1.38	8.91	8.39	1.21	7.15
	8	11.34	1.23	7.34	10.17	1.1	6.1	9.01	0.98	4.96	7.87	0.85	3.93
	10	10.8	0.94	4.63	9.64	0.83	3.81	8.47	0.73	3.07	7.32	0.63	2.39
	12	10.26	0.74	3.12	9.08	0.65	2.54	7.91	0.57	2.02	6.75	0.49	1.53
45	6	14.66	2.12	18.35	13.48	1.95	15.86	12.32	1.78	13.55	11.16	1.61	11.42
	8	14.15	1.53	10.51	12.97	1.41	9.04	11.81	1.28	7.68	10.65	1.15	6.43
	10	13.63	1.18	6.73	12.45	1.08	5.76	11.28	0.98	4.86	10.13	0.88	4.04
	12	13.1	0.95	4.61	11.92	0.86	3.93	10.75	0.78	3.29	9.59	0.69	2.71
50	6	17.46	2.53	24.4	16.27	2.36	21.56	15.09	2.19	18.91	13.92	2.02	16.43
	8	16.96	1.84	14.08	15.77	1.71	12.4	14.59	1.58	10.84	13.42	1.46	9.38
	10	16.45	1.43	9.09	15.26	1.33	7.98	14.08	1.22	6.95	12.91	1.12	5.99
	12	15.93	1.15	6.3	14.74	1.07	5.51	13.56	0.98	4.78	12.39	0.9	4.09
55	6	20.26	2.94	31.08	19.06	2.77	27.91	17.87	2.59	24.92	16.69	2.42	22.11
	8	19.76	2.15	18.02	18.56	2.02	16.15	17.37	1.89	14.39	16.19	1.76	12.73
	10	19.26	1.68	11.71	18.06	1.57	10.47	16.87	1.47	9.3	15.69	1.37	8.2
	12	18.75	1.36	8.17	17.55	1.27	7.29	16.36	1.19	6.45	15.18	1.1	5.67
60	6	23.06	3.35	38.36	21.84	3.18	34.87	20.64	3	31.55	19.45	2.83	28.42
	8	22.56	2.46	22.33	21.35	2.33	20.26	20.15	2.2	18.31	18.96	2.07	16.45
	10	22.06	1.92	14.57	20.85	1.82	13.2	19.65	1.71	11.9	18.46	1.61	10.67
	12	21.56	1.57	10.21	20.35	1.48	9.23	19.15	1.39	8.31	17.96	1.3	7.44

10. Static Pressure Graphs

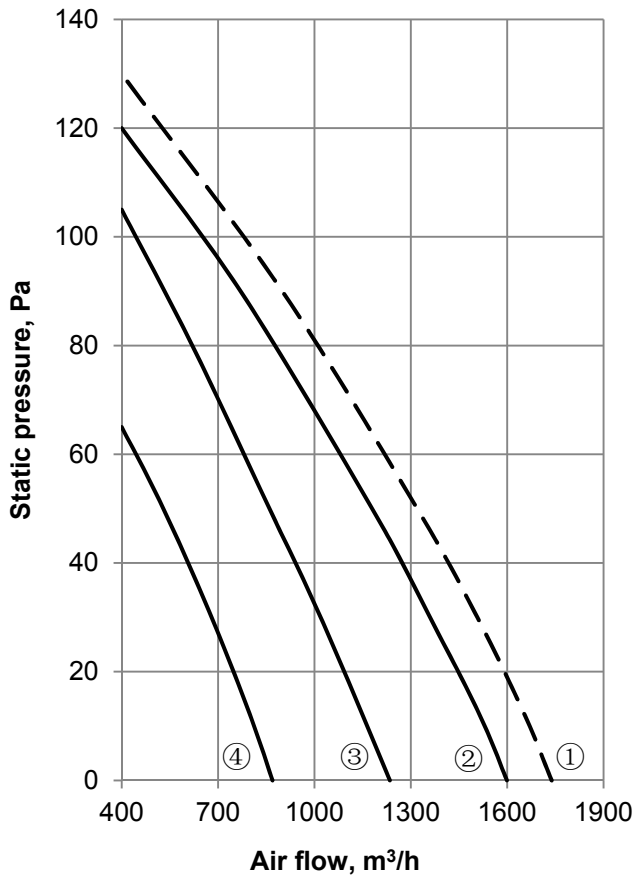
IFCH404KF-1



IFCH406KF-1



IFCH408KF-1

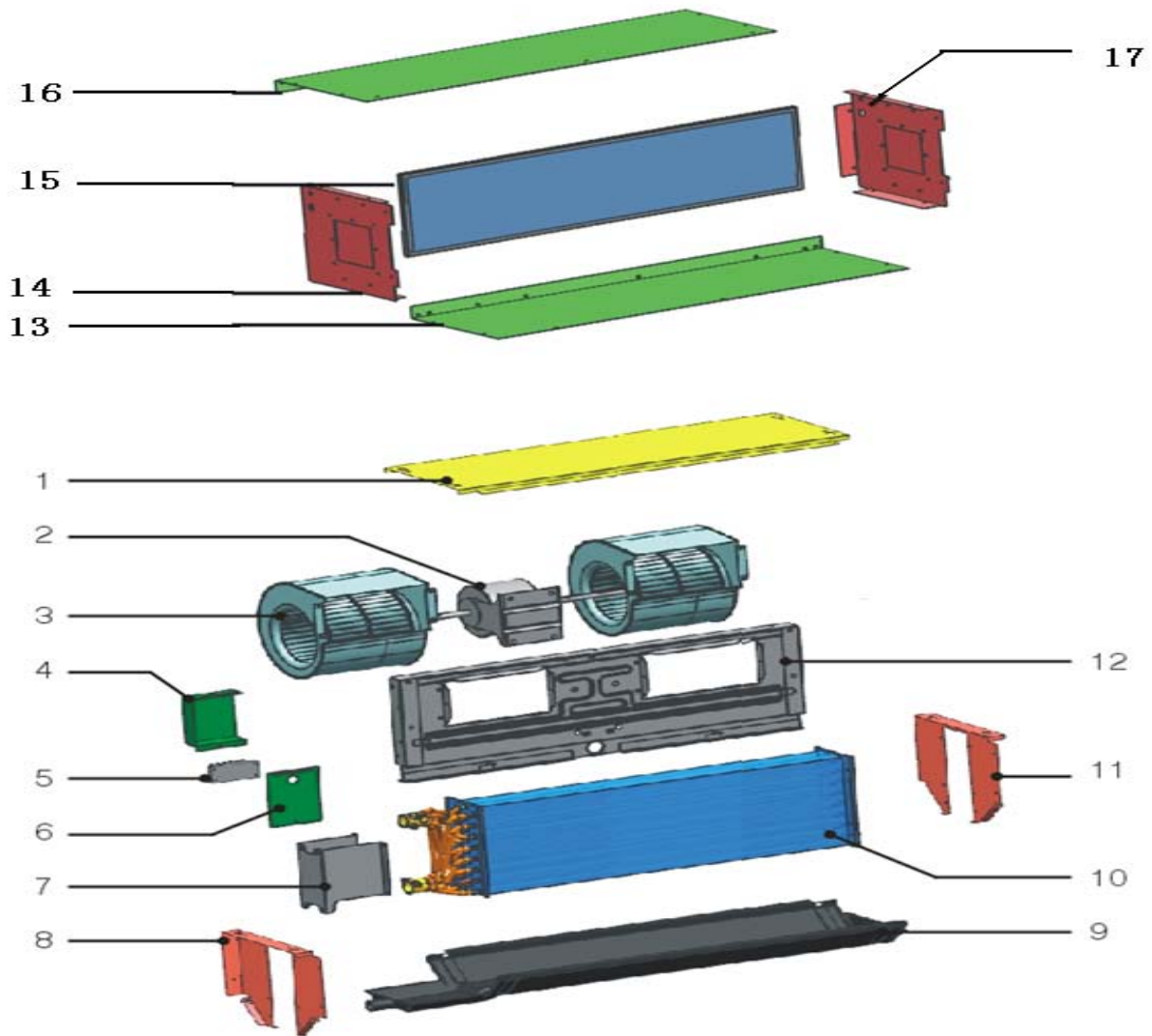


How to read the diagram:

- The vertical axis is the External Static Pressure (Pa) while the horizontal axis represents the Air Flow (m³/h).
- The fan performance curves are for the “1-Super High”, “2-High”, “3-Medium” and “4-Low” fan speed.
- The dotted line stands for reserved fan speed.

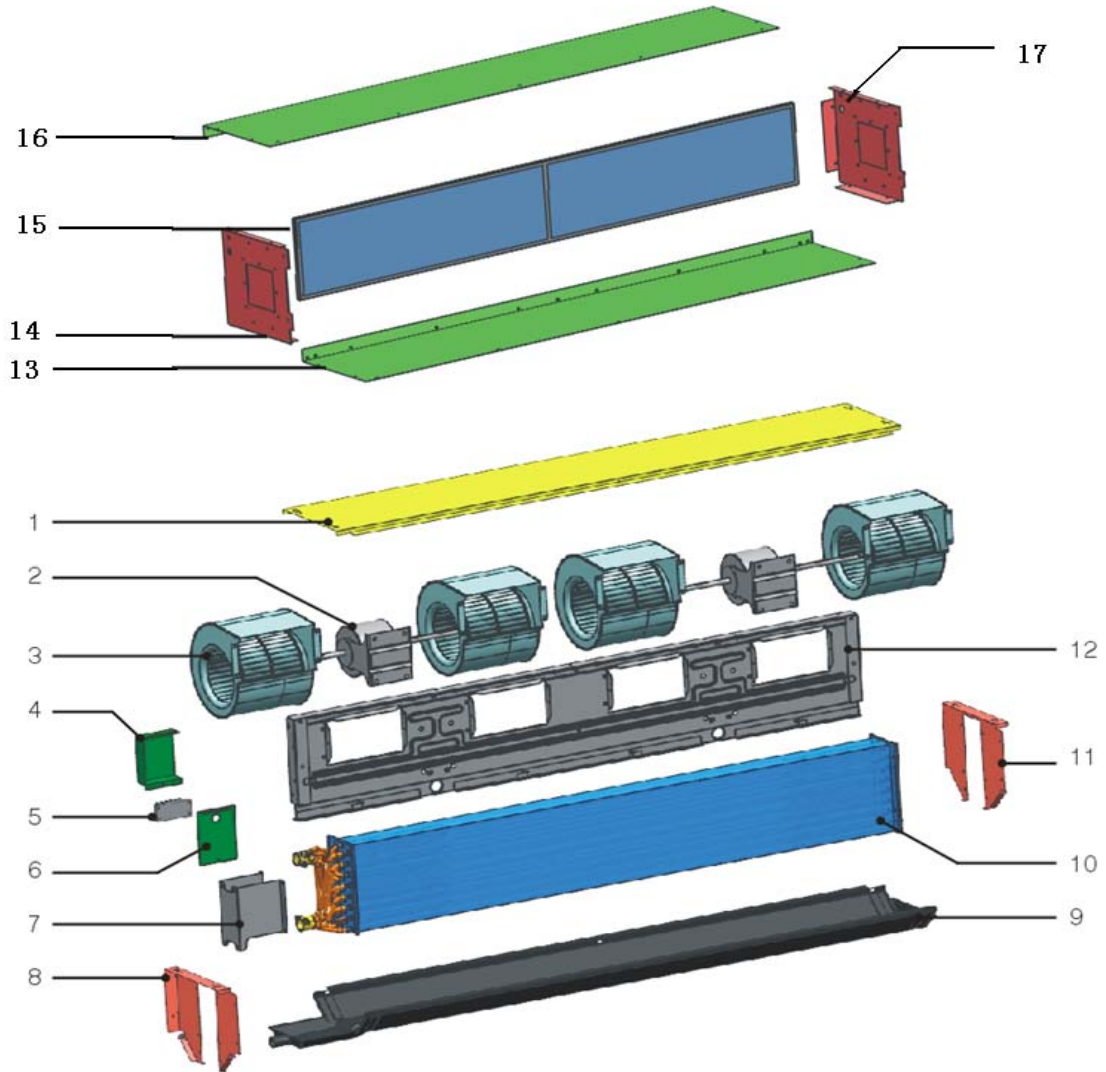
11.Exploded Views

IFCH404KF-1, IFCH406KF-1



No.	Part Name	Quantity
1	Top panel ass'y	1
2	Motor ass'y	1
3	Fan ass'y	2
4	Motor junction box cover	1
5	Wire joint, 5p	1
6	Motor junction box	1
7	Water collector installation board	1
8	Left panel	1
9	Drain tray ass'y	1
10	Evaporater assembly	1
11	Right panel	1
12	Middle clapboard ass'y	1
13	Rear below cover plate ass'y	1
14	Left cover plate ass'y	1
15	Air filter	1
16	Up cover plate ass'y	1
17	Right cover plate ass'y	1

IFCH408KF-1



No.	Part Name	Quantity
1	Top panel ass'y	1
2	Motor ass'y	2
3	Fan ass'y	4
4	Motor junction box cover	1
5	Wire joint, 5p	1
6	Motor junction box	1
7	Water collector installation board	1
8	Left panel	1
9	Drain tray ass'y	1
10	Evaporater assembly	1
11	Right panel	1
12	Middle clapboard ass'y	1
13	Rear below cover plate ass'y	1
14	Left cover plate ass'y	1
15	Filter	1
16	Up cover plate ass'y	1
17	Right cover plate ass'y	1

12. Installation

12.1 Installation site

- Install the unit where installation and maintenance space is enough.
- Install the unit where the ceiling is horizontal and enough to bear the weight of the indoor unit.
- Install the unit where the air inlet and outlet are not baffled and are the least affected by external air.
- Install the unit where the supply air flow can be sent to all parts in the room.
- Install the unit where it is easy to lead out the connective pipe and the drain pipe.
- Install the unit where connotative heat is emitted from a heat source directly.

Caution:

Installing the equipment in any of the following places may lead to faults of the equipment (if that is inevitable, consult the supplier):

- The site contains mineral oils such as cutting lubricant.
- Seaside where the air contains much salt.
- Hot spring area where corrosive gases exist, e.g., sulfide gas.
- Factories where the supply voltage fluctuates seriously.
- Inside a car or cabin.
- Place like kitchen where oil permeates.
- Place where strong electromagnetic waves exist.
- Place where flammable gases or materials exist.
- Place where acid or alkali gases evaporate.
- Other special environments.

Precautions before installation:

- Decide the correct way of conveying the equipment.
- Try to transport this equipment with the original package.
- If the air conditioner needs to be installed on a metal part of the building, electric insulation must be performed, and the installation must meet the relevant technical standards of electric devices.

12.2 Installation body

Confirm the dimensions of the indoor unit against the following figure.

Install $\Phi 10$ pendant bolts (4 bolts)

The intervals of the pendant bolts are shown in the following figure.

Use the $\Phi 10$ pendant bolts.

The treatment of the ceiling varies between buildings. For detailed measures, negotiate with the construction and fit-out staff.

Scope of dismantling the ceiling. Please keep the ceiling horizontal. Reinforce the beams and girders of the ceiling lest vibration of the ceiling.

Cut off the beams and girders of the ceiling.

Reinforce the cut-off part, beams and girders of the ceiling.

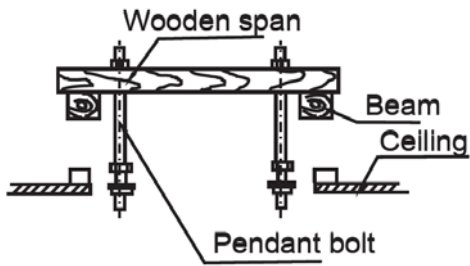
After the main body is suspended, work on the pipes and wires in the ceiling. Decide the lead-out direction of the pipes after selecting the installation site. Especially, in a circumstance where a ceiling is available, extend the refrigerant pipe, drain pipe, indoor/outdoor connection wires and wire controller lines to the connection position before suspending the unit.

12.2.1 Procedure of installing the pendant bolts.

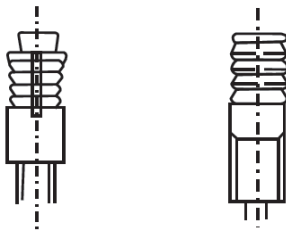
1) Base on the unit structure, please set the screw-pitch according to the size of the following figures:

- Wooden structure:

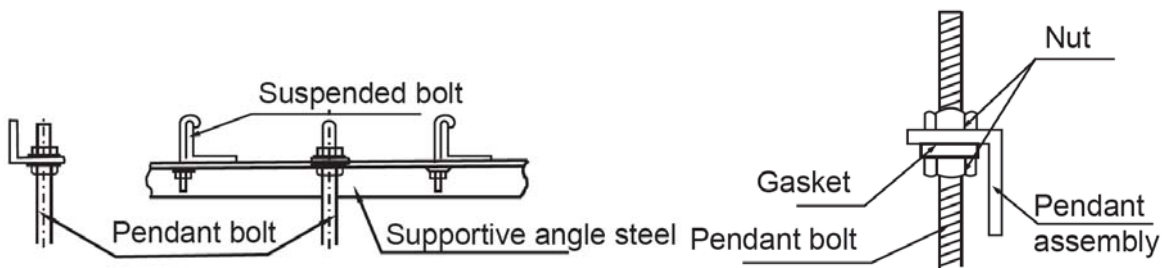
Put rectangular sticks across the beams, and set pendant bolts.



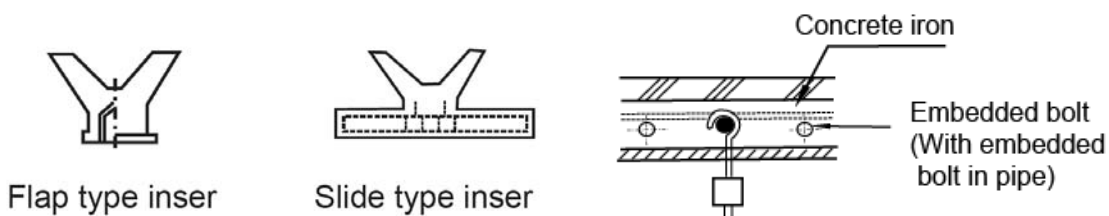
- Old concrete roughcast:
Use embedded bolts and embedded pulling plugs.



- Steel beam and girder structure:
Set and use supportive angle steel.



- New concrete roughcast:
Set it with embedded bushes or embedded bolts.



2) Suspending the indoor unit

- Use tools such as pulleys to hoist the indoor unit to the pendant bolt.
- Use tools such as gradient to settle the indoor unit horizontally. Lack of horizontality may cause water leak.

3) Connect the duct

The duct length is determined according to the external static pressure.

4) Install the wire control switch

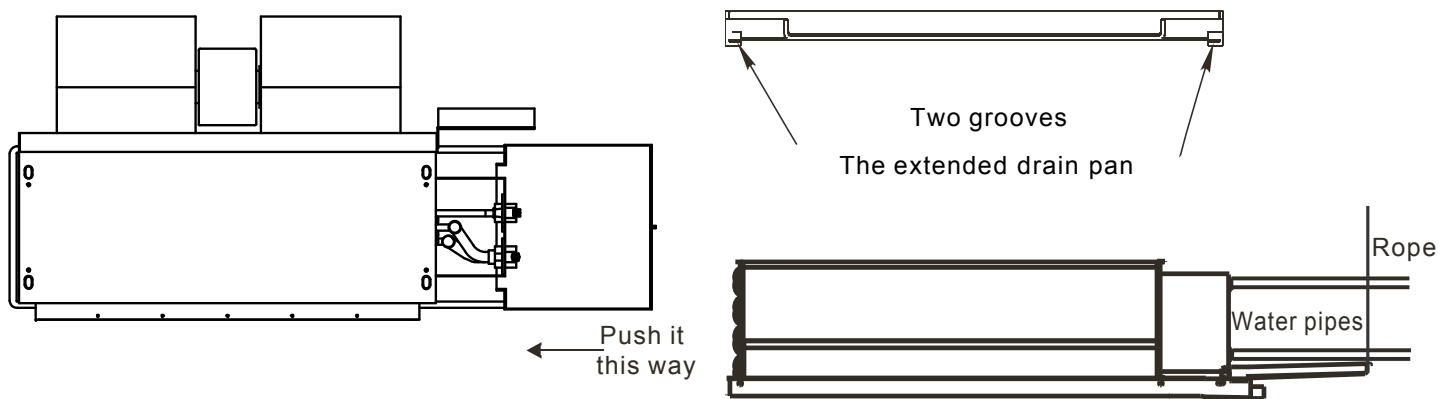
For installation of the wire control switch, see the installation manual of the wire controller.

12.2.2 Body dimension

Please refer to chapter 7.

12.3 Installation extended drain pan

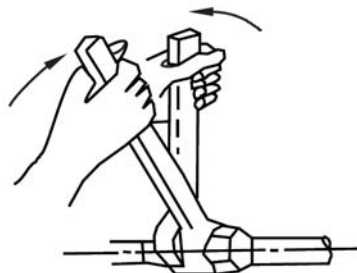
The grooves of the extended drain pan can be locked at the brim of the main drain pan.



- Please hang up the extended drain pan to the pipes or ceiling by a rope.

12.4 Installation water pipe

- With air release valve, the other side is water inlet pipe.
- When connect water collector, set the tightening torque to 6180~7540N.cm (630~770kgf.cm), and use a spanner to tighten it as shown in Figure.
- The diameter of connective junction in water inlet pipe and water outlet pipe is RC3/4 tapper pipe thread inside.
- The diameter of condensate pipe is ZG3/4 tapper pipe thread outside.



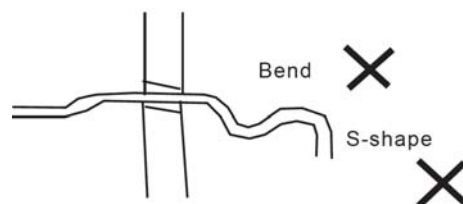
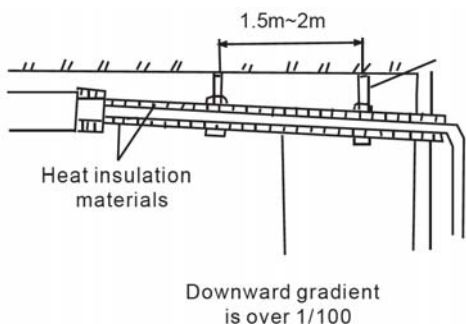
12.5 Installation drain pipe

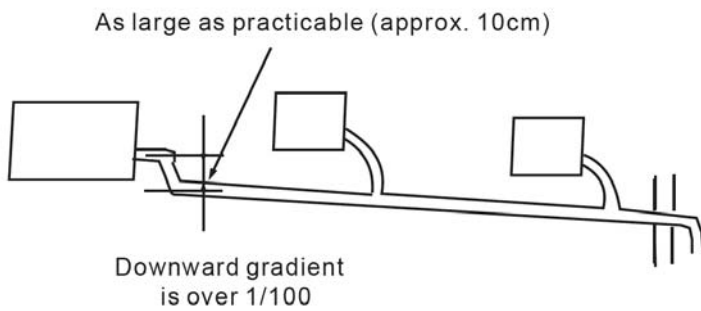
1. Install the drain pipe of the fan coil unit

Before out from factory, the scupper adopts the pipe thread.

CAUTIONS:

- Be sure to perform heat insulation for the drain pipe of the indoor unit. Otherwise, condensate will occur. The joint of the indoor unit should also undergo heat insulation treatment.
- When performing the pipes connection, use the rigid PVC binder, and make sure that no leak exists.
- Same as the joint of the indoor unit. Be careful not to apply force at the pipe side of the indoor unit.
- The downward gradient of the drain pipe should be higher than (1/100), without bend in the middle.
- The total length of the drain pipe should not exceed 20m, when the pipe is over long, a prop stand must be installed to prevent winging.
- The centralized pipes should be distributed against the figure shown on the right side.





2. Drain test

- Before the test, ensure that the drain pipes are smooth and the adapters are sealed.
- Newly built rooms should undergo the drain test before the ceiling is laid.

12.6 Wiring installation

CAUTIONS:


- The air conditioner should use separate power supply with rated voltage.
- The external power supply to the air conditioner should have ground wiring, which is linked to the ground wiring of the indoor and outdoor unit.
- The wiring work should be done by qualified persons according to circuit drawing.
- An all-pole disconnection device which has at least 3mm separation distance in all pole and a residual current device (RCD) with the rating of above 10mA shall be incorporated in the fixed wiring according to the national rule.
- The appliance shall be installed in accordance with national wiring regulations.
- Be sure to locate the power wiring and the signal wirings well to avoid cross-disturbance.

Do not turn on the power until you have checked carefully after wiring.

The wiring connection please refers to chapter 8.

13. Accessories

13.1 Standard accessories

Accessory name	Qty.	Shape	Usage
Owner's & installation manual	1	/	Installation guide
Extended drain pan	1		Connect drain water from valve kit

13.2 Trouble shooting

Symptoms	Causes	Solution
The fan speed can not be changed.	<ul style="list-style-type: none"> Check whether the MODE indicated on the display is "AUTO" 	When the automatic mode is selected, the air conditioner will automatically change the fan speed.
	<ul style="list-style-type: none"> Check whether the MODE indicated on the display is "DRY" 	When dry operation is selected, the air conditioner automatically change the fan speed. The fan speed can be selected during "COOL", "FAN ONLY", and "HEAT"
The remote controller signal is not transmitted even when the ON/OFF button is pushed.	<ul style="list-style-type: none"> Check whether the batteries in the remote controller are exhausted. 	The power supply is off.
The TEMP. indicator does not come on.	<ul style="list-style-type: none"> Check whether the MODE indicated on the display is FAN ONLY 	The temperature cannot be set during FAN mode.
The indication on the display disappears after a lapse of time.	<ul style="list-style-type: none"> Check whether the timer operation has come to an end when the TIMER OFF is indicated on the display. 	The air conditioner operation will stop up to the set time
The TIMER ON indicator goes off after a lapse of certain time.	<ul style="list-style-type: none"> Check whether the timer operation is started when the TIMER ON is indicated on the display. 	Up to the set time, the air conditioner will automatically start and the appropriate indicator will go off.
No receiving tone sounds from the indoor unit even when the ON/OFF button is pressed.	<ul style="list-style-type: none"> Check whether the signal transmitter of the remote controller is properly directed to the infrared signal receiver of the indoor unit when the ON/OFF button is pressed. 	Directly transmit the signal transmitter of the remote controller to the infrared signal receiver of the indoor unit, and then repeatedly push the ON/OFF button twice.



Importado por: **INTENSITY AIR, S. A. DE C. V.**

RFC: IAI-100609-SRA.

Río Amacuzac #1125, Col. Valle Ote., CP. 66269

San Pedro Garza García, Nuevo León, México

Note: Product specifications change from time to time as product improvements and developments are released and may vary from those in this document.