

揚帆

YANGFAN

吊掛隱藏式室內送風機 (含大溫差型)

Ceiling Concealed Fan Coil Unit (W/Large Temperature Difference)



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榮獲國際品質認證

吊掛隱藏式室內送風機

結構與特性

1. 本系列機種分為冰水式。冰水式由冰水機送來冰水達到製冷的功能，由熱回收器送來熱水達到製熱的功能。
2. 揚帆牌室內送風機採用鍍鋅鋼板機殼，配置前曲葉片式風車，鋁質多縫型鰭片盤管及PE防火保溫之滴水盤等，使整個送風機外形美觀，結構精緻。本產品設計耐用年限為十年，在安裝精確，維護良好，操作正常情況下，可使用十年以上而不致故障。
3. 風車馬達為E級絕緣電容器起動感應式馬達，軸心均經調質與硬鉻處理，使軸心永久不變形、不生鏽、又耐用。滾珠軸承，能自動潤滑，轉動時無噪音、又省電。
4. 盤管採用高純度無縫紫銅管與鋁質多縫型散熱鰭片，經機械脹管而成，鰭片與銅管間接觸絕對緊密，能發揮最佳換熱效果。
5. 為減少水頭損失集水頭採用黃銅鍛造而成，水流分佈均勻順暢。出水端設旋鈕式排氣閥，能輕易排出系統內空氣。
6. 盤管採用大溫差迴路設計，進出水溫度差達7℃，降低冰水流量約40%，使冰水泵浦的馬力降低，節省冰水泵能源。
7. 在室內適當位置安裝風速及溫度控制開關與本送風機連接，以控制所需風量及溫度。
8. 為客戶安裝方便，特推出吊掛隱藏式室內送風機附屬產品，歡迎選購使用。

- 吊掛隱藏式室內送風機(附集風箱)
- 吊掛隱藏式室內送風機(附回風箱)
- 吊掛隱藏式室內送風機(附集風箱+回風箱)

Fan Coil Units

(Ceiling Concealed Type)

Construction and General Features

1. This series Fan Coil Unit is chiller water type. The chiller water type fan coil would use chiller water from chiller unit to generate cooling while using heat recovery water to generate heating.
2. YANGFAN fan-coil units are fabricated of rigid galvanized steel casing, complete with quiet metal DIDW centrifugal fan, slit aluminum finned coil, and steel galvanized drain pan with 5mm high density self fire-extinguishing insulation, providing the units a compact appearance and a minimum 10-year life time as designed. Under correct installation, well maintenance and normal operation conditions, the units even work in trouble-free for more years than the designed life.
3. All units are using E class insulation 3-speed permanent split capacitor motor with its shaft normalized and chrome plating treated, no deflection, corrosion proof and durable. Ball bearings provide low-noise and save energy.
4. The coils are using slit aluminum fins mechanically and tightly bonded to seamless copper tubes, providing high heat transfer.
5. For minimizing the pressure drop, all units adopt the brass water header to distribute the water fluently and evenly. An air vent on the header makes air in the system easily released.
6. The coils adopts large temperature difference circuit design. The temperature difference toward inlet and outlet water can reach 7oC, which could reduce the chilled water flow rate about 40%, and the reduction of chilled water pump operation horse power.
7. Just loosen the screws; exchange the positions of fan deck and air outlet flange, the piping direction has been immediately reversed. This special design for all units' means less time spent per unit during installation for arrangements with left-hand or right-hand connections.
8. For customers to install convenient. We are to present the ceiling concealed type fan coil units (YFCR) append to product. Thank you for choose our products.

- Fan coil units (Ceiling Concealed Type with Plenum)
- Fan coil units (Ceiling Concealed Type with Return-Air Box)
- Fan coil units (Ceiling Concealed Type with Plenum & Return-Air Box)

冰水式送風機標準規範

60 Hz

Chiller Water type Standard Specifications

型 號 Model	單位 Unit	YFCR							YFCR-T					
		400S	600S	800S	1000S	1200S	1400S	1600S	400S	600S	800S	1000S	1200S	1400S
		400H	600H	800H	1000H	1200H	1400H	1600H	400H	600H	800H	1000H	1200H	1400H
冷房能力 Cooling Capacity	kcal/h	3,450	5,350	7,150	8,400	9,350	11,300	13,800	3,362	3,957	5,810	7,672	8,133	9,803
風量 (高速) Air volume	m ³ /h	690	1,050	1,380	1,750	2,040	2,450	2,760	690	1,050	1,380	1,750	2,040	2,450
風扇 Fan														
型式 Type		前曲葉片離心雙吸口式 Double inlet Centrifugal Forward-curved Fan												
數量 Number	pcs	1	2	2	3	4	4	4	1	2	2	3	4	4
馬達 Motor														
電源 Power source		1 PH - 110V - 60Hz / 1 PH - 220V - 60Hz												
型式 Type		E 級絕緣電容器起動式三速馬達 E Class Insulation 3 Speed Permanent Split-capacitor Motor												
數量 Number	pcs	1	1	1	2	2	2	2	1	1	1	2	2	2
普通型 Standard Type														
機外靜壓 Ex. Static Pres.	mmAq	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
輸入功率 Power Input	W	55	67	83	128	134	166	166	55	67	83	128	134	166
110V 運轉電流 Running Current	A	0.51	0.60	0.79	1.20	1.25	1.58	1.58	0.51	0.60	0.79	1.20	1.25	1.58
220V 運轉電流 Running Current	A	0.26	0.30	0.40	0.60	0.63	0.79	0.79	0.26	0.30	0.40	0.60	0.63	0.79
高靜壓型 High Static Type														
機外靜壓 Ex. Static Pres.	mmAq	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
輸入功率 Power Input	W	85	100	140	185	200	270	360	85	100	140	185	200	270
110V 運轉電流 Running Current	A	0.82	0.96	1.34	1.67	1.92	2.58	3.28	0.82	0.96	1.34	1.67	1.92	2.58
220V 運轉電流 Running Current	A	0.41	0.48	0.67	0.84	0.96	1.29	1.64	0.41	0.48	0.67	0.84	0.96	1.29
盤管 Coil														
型式 Type		鋁質多縫鰭片，經機械脹管與紫銅管緊密結合 Slit aluminum Fins mechanically bonded to copper tubes												
操作壓力 Operating Pres.	kg/cm ²	17.5	17.5	17.5	17.5	17.5	17.5	17.5	17.5	17.5	17.5	17.5	17.5	17.5
水流量 Water Flow	l/min	11.5	17.8	23.8	28.0	31.2	37.6	50.1	8.0	9.4	13.8	18.2	19.7	23.7
水壓降 Head Loss	mAq	1.50	3.10	5.00	2.60	3.10	3.90	5.20	1.98	0.49	1.19	2.32	1.07	1.55
進出水管徑 Water Conn.	in	3/4	3/4	3/4	3/4	3/4	3/4	1.0	3/4	3/4	3/4	3/4	3/4	3/4
外型尺寸 Dimension														
A	mm	1,090	1,290	1,520	1,740	1,950	2,140	2,140	1,090	1,290	1,520	1,740	1,950	2,140
B	mm	710	910	1,140	1,360	1,570	1,760	1,760	710	910	1,140	1,360	1,570	1,760
C	mm	670	870	1,100	1,320	1,530	1,720	1,720	670	870	1,100	1,320	1,530	1,720
產品淨重 Net Weight	kg	25.9	30.1	36.0	44.0	51.0	57.0	60.0	22.0	26.0	31.0	38.0	44.0	50.0

附註: 以上能量在下列室內狀況下求得:

冷房: 進風乾球溫度27°C, 濕球溫度19.5°C

冰水進水溫度7°C, 出水溫度升高5°C

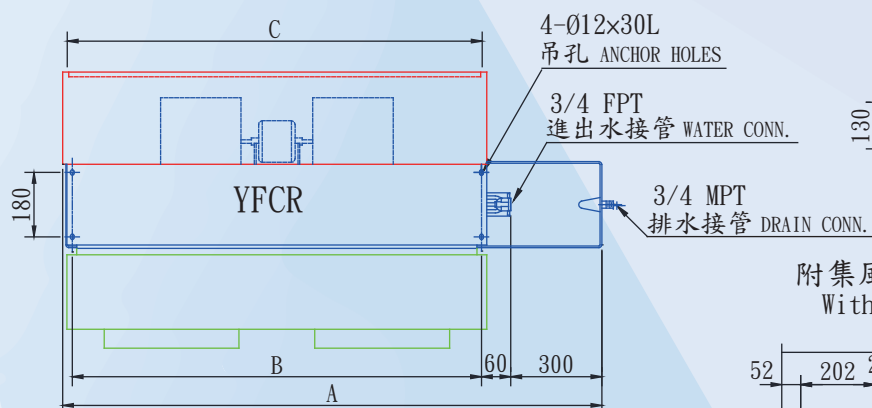
Note: The capacity is based on the following conditions

Cooling - Entering air temp. 27°C DB, 19.5°C WB.

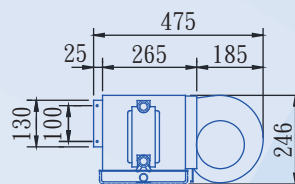
Entering chilled water temp 7°C leaving temp rise 5°C

吊掛隱藏式室內送風機外形尺寸圖

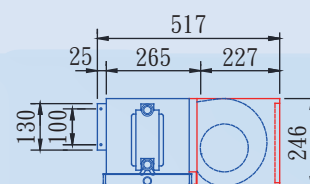
FAN COIL UNITS (Ceiling Concealed Type) Dimension



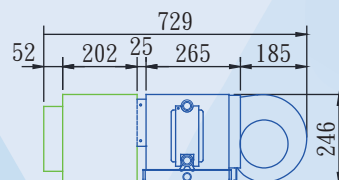
一般型側面尺寸
SIDE DIMENSION



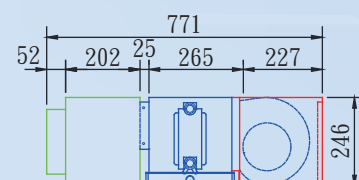
附回風箱側面尺寸
With Return-Air Box



附集風箱側面尺寸
With Plenum Box



附集風箱+回風箱側面尺寸
With Plenum & Return-Air Box



註：1. 紅色為附回風箱

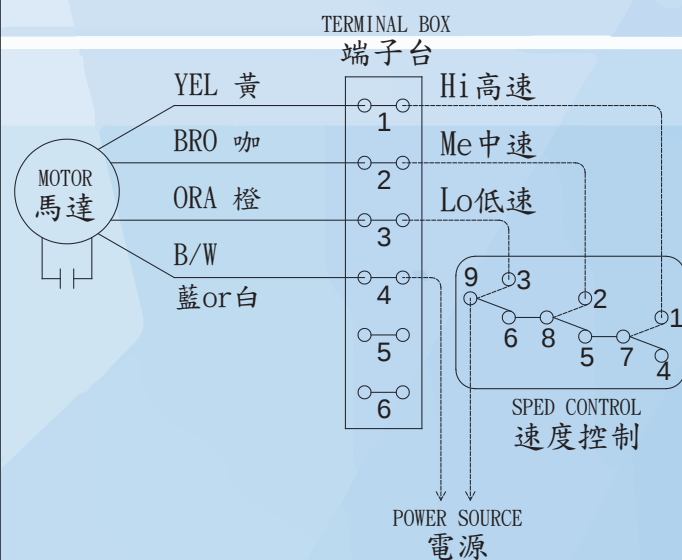
2. 綠色為附集風箱

Note : 1. RED - With Return Air Box

2. GREEN - With Plenum Box

接線圖 Electrical Wiring Diagram

YFCR-300~800



YFCR-1000~1600

